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FOR

## Women's and Misses'

## UNDERWEAR

consisting of

Corset Covers, Camisoles, Brassiers,
Envelope Chemise, Nightgowns,
Drawers, Bloomers, Combinations, Pajamas, Princess Slips and Petticoats According to the most up=to=date method.


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# THE PRACTICAL DESIGNER 

PROBLEM OF UNDERWEAR.

In order to control the practical details in all kinds of women's and misses' undergarments, it will be necessary to systemize the modern way of controlling every proportional branch of the body: Let it, therefore, he understood that the kurt of pattern making for the underwear line depends greatly on the proportional measurements which are a necessity for perfect fitting and comfortable wean g garments.

Therefore, mote that diagram member 1 on the opposite page which illustrates that the total height of the body is divided into 8 divisions whereby is illustrated systematically the proper way of clothing the body, as follows: ' - of the total height of the body corers the head space; $2-8$ the natural waist length in back from the socket bone to the hollow of waist, and $5^{5}$ covers the space from the hollow c. waist to the ground which is the full length for such gameats as petticoats, dowers, pajamas and nightgowns.

## SEE FIGURE NUMBER 2 FOR WIDTH PROPORTIONS.

The breast measurement is taken all around the body at number 2. The bust measurement is taken all around the body at number 3. The waist measurement is taken all around the body at number 4. The hip measurement is taken all around the body at number 5 , which is 6 inches below the waist line. If measurements for drawers are wanted take knee measurement at number 6 ; calf moaswement at number 7 and ankle measurement at number 8 .

In order to specify the proper guide for the length of spaces, we follow the standard height proportion, which is for size 36,5 feet 6 inches amounting to 66 inches. The first step taken in obtaining the proportional menswements in length is as follows: Th of the total height and 1 inch less makes the natural waist length in back. To make this clear, take $\frac{1 / 4}{4}$ of 5 feet 6 inches or 66 inches which amounts to $16^{1}$ e inches and 1 inch less learing $15^{12}$ inches for the natural waist length in back. For the balance of height which is from the waist to the ground according to the total height division we find so of the total height which is 5 times $8^{14}$ inches which makes $41^{1 / 5}$ inches. To make the proper place of rise or hip line which is from the waist to the crutch we find the space of 12 inches which is explained in the following pages. Therefore. deduct 12 inches from $41^{1 / 4}$ inches leaving $29^{1 / 4}$ inches for inside length. To obtain the proper place of knee, calf and ankle according to this height take half of $29^{\prime}+$ inches and 2 inches less which amounts to $12^{5}{ }^{5}$ inches. In order to designate the space for calf the space should be 6 inches below the knee line as illustrated according to diagram number 2 illustrating width proportions. See complete table of proportions in the following pages.

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THE PROPER WAY OF TAKING RISE MEASUREMENT.
In order to make clear how to obtain the rise measurement for women's or misses' underwear watch the above diagram which gives the position how such measurement cam be taken. Have a proportional live model seated on a flat surface on a chair or table in an upright position and take the measurement from the hollow of waist which is illustrated on the above diagram at number 1 and take the measurement down to the flat surface of the chair or table which is illustrated by number 2. According to this instruction we obtain 12 inches for rise measurement for a person of normal height and medium hip measurement, such as 5 feet 6 inches. At the same time, it is necessary to know that this normal rise moasurement will be only practical for close. fitting garments. Should we want to build garments for more comfortable wear, in such case, there should be an additional allowance of 6 inches to these 12 inches and we shall use 18 inches for a full length rise measurement.

In order to obtain the additional measurements which may be used in connection with the rise measurement continue with the outside length by taking a straight outside length from the hollow of waist down straight to the knee which will give for the average length 26 inches for a person of normal height. See table of proportions on the next
page.

## I. ROSENFELD'S SYSTEM

## Proportional Measurements

## FOR

## Women's and Misses'

## UNDERWEAR

STANDARD PROPORTIONAI, MEASUREMENTS FOR WOMEN'S SIZ.ES

| Size | Bust | Waist | Hip | Back <br> Depth | Waist Length | Sleeve <br> Length | Collar | Width <br> of Back | Outside Length | Rise |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 34 | 37 | 24 | +2 | 6is | 153/8 | 17.3 | 131/2 | 7 | 41 | $11{ }^{3}+$ |
| 36 | 39 | 25 | 4.3 | 7 | 151\% | 18 | 14 | 71/4 | $411 / 4$ | 12 |
| 38 | +1 | 26 | 4 | 715 | 1558 | 1814 | $1+1 / 2$ | 71/2 | - | , |
| 40 | 43 | 27 | 4.5 | 71/4 | 153/4 | 18.2 | 15 | $7{ }^{3}+$ | " | " |
| 42 | 45 | $281 \%$ | 46 | 73/5 | 1578 | $18^{3} \mathrm{t}$ | $151 / 2$ | 8 | " | . |
| 44 | 46 | 30 | 47 | $71 / 2$ | 16 | 19 | 16 | 81/4 | " | " |

STANIARI PIROPORTIONAI, MEASUREMENTS FOR MISSES' SIZES

| Size | Breast | Bust | Waist | Hip | Back <br> Depth | Waist <br> Length | Sleeve <br> Length | Width <br> of Back | Collar |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | | Outside |
| :---: |
| Length |$\quad$ Rise

NOTE these are Standard Measurements. Stylish Measurements are published yearly which are given by the Author to book owners free of charge.


WOMAN FIRST FOUNDATION LINES.

LESSON NO. 400

I shall now commence to explain the drafting of a foundation for a woman's size 36 ant to succeed in drafting, the student has to remember every step which is made at the begriming, as the begriming lines according to this system are always to be repeated for each and every garment. It shall therefore be understood that this system is based on the most simplified method because the very first foundation lines are to be used for all the continuous lessons. The foundation lines shown in the first lesson are covering the space of the body from the neck down to the natural waist length and it therefore consists of 8 lines, which are called top line, breast line and waist line and to begin use the following standard measurements for size 36 .

| Back depth | 7 | inches |
| :--- | :---: | :--- |
| Natural waist length in back | $15!-2$ | inches |
| All around chest or size | 36 | inches |
| All around bust. ...... | 39 | inches |
| All around waist | 25 | inches |

Now begin to draft, draw a square line from $\mathbf{A}$ to $\mathbf{R}$ and $\boldsymbol{A}$ to $\mathbf{C}$ and remember that the line from A to $\mathbb{R}$ is the ton line and from $A$ to $C$ is the center back line to which you have to stand next in order to have the draft in front of you in the proper manner. Now measure from A to $\mathrm{B}, 7$ inches back depth and from A to $\mathrm{C}, 15^{12}$ inches natural waist length. Draw a line across from $\mathbf{1 3}$ to $\mathbf{W}$ and $\mathbf{C}$ to $\mathbf{X}$. After these lines are crossed, measure from A to $\mathbf{D}, \mathbf{B}$ to E and C to $\mathrm{F}, 1-3$ of size or 12 inches for size 36 and draw a line from $\mathrm{D}, \mathrm{H}$ to F .

To produce the width of back, take half of B to E, which makes ( $\mathbf{A}$ and allow from $\mathbf{G}$ to $H, 1^{1+}$ inches and then measure the space between $\mathbf{B}$ to $\mathbf{H}$ and place the same from $\boldsymbol{\Lambda}$ to I and draw a line from I to H. Now he gin the back neck; from A to J measure $1 / 4$ of size or ? inches for size 36 and from J to K raise up 1 inch and from K draw a line out against I to L.

In producing the back shoulder, raw a line from $K$ against ! to L. This space shall be 6 inches for size 36 but in order that this space or width of shoulder shall come obit naturally without memorizing the width of shoulder for each and every size, a square ruler shall be applied to the line from K to L to meet $\mathbf{H}$ and it will prove or bring the original width of shoulder for every size systematically.

Now make the ink line for the center back; make from C to M, 2 inches and draw a line from M up to A and remember that this space between C to M is always 2 inches for all women's sizes. Before going any further; remember the name of each cross line made at $\mathrm{A}, \mathrm{I}$ and C . The line from A to K is called the top line. the line from B to W is the breast line and the line from C to X is the waist line. If there are any othercrossed tines to be produced for the continuous lessons, each additional line will have the proper name of its practical use. This completes this lesson.

Take notice that this foundation and all further lessons produced on this foundton. have all necessary seams allowed.


## THE PRACTICAL DESIGNER

WOMAN'S SECOND FOUNDATION LINES

LESSON NO. 101.

To begin this lesson, we need to remember the entire foundation of the first lesson, therefore now mepare the entire first lesson and continue as follows: From $\mathbf{E}$ to $\mathbf{N}$ and from D to $\mathbf{O}$ is $\mathbf{1 - 6}$ of size or 3 inches for size 36 and draw a line up from $\mathbf{N}$ to $\mathbf{O}$. When making this step, it shall be remembered that we we preparing the outline for the front part. Now measme again from 0 to $P$ and from $P$ to $Q$ also $1-6$ of size or 3 inches for size 36. It shall be understood that we need to draw a line up from $P$ to $Q$ and as soon as the line is drawn up to $Q$, draw a line from $Q$ to the ink line at the back depth. which makes ' $\mathbf{T}$ and when this line is complete, measure the width of back shoulder from $K$ to $L$ and place the same from $Q$ to $U$, which makes the front shoulder and then draw a line from $U$ to $N$, which makes the front armhole.

Now prebare the front neck, measure from $\mathbf{P}$ to $\mathbf{R}, 1-6$ of size or, 3 inches and allow al ${ }^{1 / 2}$ inch lol seam. Then laise up a line of ${ }^{\prime \prime 2}$ of anch to $S$ for the high neek in front.

Now measure the bust: measure from $T$ to $V$ half of bust measurement. For instiance, this bust measurement amounts to 39 inches therefore, take half of this amount, $19^{1}$ - inches from $T$ to $V$ and from $V$ to $W$ allow 3 inches for seams and draw a square line down from $W$ to $\mathbb{X}$ and $\mathbf{Y}$. When this line is complete, finish the entire edge of the front by drawing a straight line from $S$ against $W$ down to $Z$.

When being this fal advanced with this fomblation, it shall be molerstood that we are about ready with this foundation; which will be completed in the next lesson for use. The next lesson will finish this foundation into a corset covel.



## WOMAN'S CORSET COVER-SIZE 36

Lesson No. 402

In order to complete this lesson into a corset fence draw all formation lines acomrlins: (u) the first and seconal lesson- and continue as follows:

To begin divide the space equally of the entire armhole le tween |l and $\mathcal{N}$ making + and drat a lime down from +102 . Then tate ont from each side of 2 . $1 / 4$ win inch and from each side of + which is at the beast line $\frac{1}{2}$ inch io E and 5 and connect 5 to 2 with a cured lime which will make the side seam of the back and connect E : 2 with a curved line which makes the side seam of the front. Scending t. this intinction we will obtain a full bottom
 at the waist line from each side of 2 to 1 and 3,1 inch and come ct 1 to 5 and 3 to $1:$.

Now make the opening for neck by (dividing at the center hack from I In b making 1.3 when will make the deepness of the back a cording to hall of the back depth making e it $3^{\prime}$ - inches deep. Then take the shouter width from 1 . to 12 which is 2 inches and curve
 the front edge from s to 11 making s. Distend from \& to 10 , 3 inches for fullness and come from 11 towards is out to 10 . Now connect 10 to 7 with a straight line which makes the
 curve up from \% tu $\bar{\prime}$ with a ' inch, as shown on the diagram. Then allow 1 inch for but-tom-stand to the edge oi f the front from 10 down to 7 . Now make all curves as shew on the diagram. . Wow at 1 and $3 \mathrm{o}^{2}$ z inch at the bottom of waist. Cure the amble at the back from 1. to 5 and at the front from ( 10 ) F .

To cut out the corset cover follow the heavy lines of form and back. If a very full back is watered follow the dotted line from 1.3 to ( and then cut on the heavy mathis from 1.3 to 12 to 1 and 5 down to 1 and from 1 to $X$ and $\left(\%\right.$ The front is cot ont from $L^{\prime}$ towards 1: down to 3 and from 3 ont to $\%$ and 7 and then from 11 towards \& to 10 and from 10 down in 7 . If a much bower font opening is wanted follow the tace line showman at 9 at the front edge between c and 11 and curve in the same manor as the original line at is with the exception that this is about 2 inches below the first opening curse. Note that when this pattern is cut ont aceroding to these instructions the pattern has seams allowed and is ready to be cut from any lind of material. This pattern has moral seams of $3 / \begin{gathered}\text { of a } a n \text { inch for a }\end{gathered}$ half scam or $\mathrm{s}_{\mathrm{a}}$ of an inch for a fall seam.

To make the ripple for the corset cover watch the diagram below the corset cover on the opposite page, which illustrates the same. Draw a straight line for 1 to 2 measuring half of the waist measurement when is about 12 ? inches for 25 inches waist. Divide equally
 Then curve from 2 townols $f$ ip to 1 and draw a line from 1 to 5 and 2 to 5 . Now square a line out from 1 to 6 and 2 to 7 and measure from 2 to 7.3 inches and 1 to 6 also 3 inches and male a curve from $\bar{t}$ towards 5 to 6 which will complete the ripple in a 3 -inch width with all swaths allowed.



WOMAN'S TIGHT-FITTING CORSET COVER-SIZE 36

Lesson No. 403

To make the tight-fitting corset cover make the msual fommation lines and divide the armbule between 1 and (imaking $\mathcal{N}$. Draw a line down from $\mathcal{N}$ to 7 wheh is at the back armbole space. 'lake out from each side of $N$. to 5 and $G, 3_{1}$ of an inch and frome cach side wi 7 te lis and 10,2 inches. Now shorten the waist length from lit to and 10 to $t$ with a! inch all the way ont to \& and D.

Now make the dart in front loy dividing the chest foom $F$ to $R$ making S. . Allow from $V$ to $X \quad 3$ of an inch and draw a line fom $k$ io $X$ down to 14 . Then allow from I to Y . 2 inches for a long waist effect and draw a line from 9 against ) to $1+$. Take the space from $R$ to $S$ and place same amomit from if to $Z$ and draw a stratght line from $S$ to 7 and divide the space between S and 7 making 1 wheh makes the height of dart. Nuw take out fomm $\%$ to 2 , 1 inch and irom $\%$ to 3,2 inches. Measure the space from 1 to 2 and apply the same length from 11015 and comect 15 to 9 wheh will complete the entire dart and bottom for the tight-fitting corset cover.

Now finish the upper part of the front edge in a tight-fitting effect from ${ }^{\prime}$ to $k$ amb divide the space between 11 to $R$ which makes 16 for a medium neck opening in front. Divide egually the shoulder of the fromt and take half from () to $L^{\prime}$ makinge 17. Daw a parallel line from 17 to 18 and square a line acrose from 16 to 18 which will give according to the trace lines shown on the diaseram a square opening. li a curved effect is desired make a curve from 17 to 16 as showin on the font of the diagram. To make the opening at the lack divide the shoulders at the hate erpally between 1 , and at making 12 and squate a line down from 12 to 13 . Divide equally the back depth space from is to $B$ making 11. Square a line from 11 to 13 which will give a square cut-out at the back. if a ronncl effect is wanted. curve as shown from 11 to 12.

For button-stand in front allow 1 inch at the front edse from 16 down to 14 . Otherwise, this tight-litting eorset cover is complete with all necessary seams allowed.


## THE PRACTICAL DESIGNER

WOMAN'S BRASSIERE—SIZE 36

Lesson No. 404

In order to make the brassiere prepare the nsual foundation lines and divide the side seams as explamed for the tight-fitting corset cover. frepare the dart in fromt in the same manmer and tren ate as Gollows: Is this gatment is to be strictly tight-fitting divide the bottom of the back from 1) to + making ? and from (1) to 19 takic ont a $I_{2}$, inch. Divide equally the back shoulder from 1 , to 11 making 10 and comnect 10 to 19 . Connect with a trifle curved line 9 lost to the breast line which will. in this maner. produce the closefitting back for the brassiere.

To make the front part divide the front shoulder from () to L making 11 and commect 11 to 1 , which is at the height of dart, with a statight line. In order to get the proper close-fitting bust effect begin to curve on the straight line from about the breast line lost to the waist line to 3. Therefore, it should be moderstood that the straight line continues for the outside part of the front to 2 . Fo betcer mulerstand this it is to begin at 11 passing 15 down to 2. It should be molerstom that this lesson is followed according to the lesson lefore this.

The opening of cut-out aromed the neck is built on the same principle as for the lesson hefore this. Divide the back depth at the center back from 1 to $b$ making 12 ; draw a line from 12 across to 13 which connects with the French seam from 13 up, to 10 . If a rombleffect is wanted follow the dotted line from 10 to 12 . 'lo make the front opening or cutent divide the space at the front edge from $W$ to $R$ making it and draw a line across to 15 . For a square opening follow from 15 to 11 . Should a rombl opening be wanted follow the dotted line from 11 to $1 t$.

To allow for button-stand in front allow 1 inch all the way through the edge of the front from $1+$ to $\mathcal{X} X$. shown be the dotted lines. To cut out has pattern remember that this pattern is cut out on the same principle as the corset cover or any other gament with the exception that there is positively no need for a seam at the center back. Therefore deduct $3 / 8$ of an inch for a seam from 12 to $D$. Note that the small dart which is between 9 and 19 lost to the breast line is to be taken out. When the pattern is cut out we are to allow scams all the way through from 9 and 19 up to 10 and $3 / \mathrm{A}^{10}$ of an inch is the proper amombt to allow at each side. Also note that the front dart between 2 and 3 lost all the way through up to the breast line is to be thrown out and $3 / 8$ of an inch for seams are to be allowed from 11 all the way down to 2 and 3 at hoth parts of the pattern which are the inner and the outside parts of the fromt.


# THE PRACTICAL DESIGNER 



## WOMAN'S CAMISOLE-SIZE 36

Lesson No. 405

To produce the camisole systematically and practically which may sate a great deal of material and labor make use of the first 2 foundations up to the bust which is shown on the opposite diagram from 2 to 22. When the line of the front edge is drawn from 19 astanst 22 down to 25 measure the space at the bottom of the front from $2 f$ to 25 and extend the same amount at the breast line from 22 to 26 and connect a line from 26 to 25. Note that the lengthening of waist at the hottom between 23 and $2 t$ is 1 inch.

To finish the bottom entirely simply conncet a straight line from the bottom of the conter back from 3 against 24 out to 25 and curve up, as shown on the diagram, about $1 / 4$ of an inch at 25 to give a trifle romdness at the bottom of the front when the garment is comected. Now note the heavy line at the breast line including the bottom, center back and center front which clearly shows that in order to make the camisole in one piece, all we need is the space between breast and waist line including all the fullness at the center back and the special allowance which is made at the front between 22 and 26 lost to 25 .

To complete this one-piece camisole foundation allow 1 inch for button-stand from 26 down to 25 in the same manner as shown for the brassierc. Should it be necessary to attach upper yoke parts which, as a rule, is a style, follow the suggestion given according to the trace line for a I yole effect. Divide each shoulder at the front and back, for instance, the back shoulder divide between 11 and 12 making 27 and follow according to the dotted line from 27 to 2 and 27 to 8 . The front shoulder divide between 17 and 30 making 28 and draw a dotted line from $2 S$ te $1+$ and 2 s' to 16 . Should we want a shoulder strip, which may be made of ribbon or lace, follow the shoulder and armhole lines, which is about $1 \mathrm{I} / 2$ inches in width which is shown at the back from 12 to 9 which is followed parallel according to the trace line down to the breast line. For the front also follow the front armhole line according to the same width which is from 30 to 31 parallel down to the breast line as illustrated by the dotted lines.

It should therefore be understood that the proper adding is a matter of taste and style and the lower part is the original foundation of the camisole as described before with all the necessary seams allowed.


WOMAN'S CHEMISE—SIZE 36

Lesson No. 406

In order to begin the chemise make mse wi the uper fomblation lines as explaned in the first two lessons as far as the bust line wheh is on the opposite diagram limisherd (t) the fromt edge at "t and square a straight line kown irom ') towards 10 . 11 and 12 and continue as follows: Neasume from 3 to $t$, G inche for hip lince and cross a line from t (1) 11. Xuw measure 36 inches from 1 to 5 which is the nomat lemgth for a chemise and draw a line across fom 5 to 12.

Now make the center back; measurc in at the conter loack and waist line from 3 to 3.5 , if of anch and draw a stratht line up from 35 to 1 and from 35 against + down to 7 , which will complete the proper shape of a chemise.

Now prepare the armhole. Divide equally the space of the ambole lietween 17 and 22 making 27 and draw at staight line down irom 27 towares $22^{2}$ to $2^{\prime \prime}$. Fake out at the Waist line from each side of 2 s in 30 and 31 . ' , inch each and extend at each side of 29 at the hip line to $1+$ and 32 also a 12 inch. Then connect lines from 27 to 30 and fom 30 aganst it duwn to. 3.3 which will complete the sirke eam of the hack. 1) Whe a line from 27 (1) 31 down against 32 to $3+$ will complete the side seam of the front Som finish the
 the front ambule from 25 to 38 .

Now make the opening cut-out for normal use as follows: Raise up at the center back It the breast line from 2 to $\mathcal{X}, 1$ inch, and measure the shoukderetrip at the back from 21 to 39 . 2 inches, and curve as shown on the diagram from 30 to $\mathbb{N}$. Neasure the front shoulder strip from 25 to 10 and curve from to towards 26 to 9 . This will complete the chemise with all necessary scame altowed, for size 36 , or wheh may be followed ujp to any other size according to lixe table of proportions given in the front pages.


## THE PRACTICAT DESIGNER

WOMAN'S ENVELOPE CHEMISE-SIZE 36

Lesson No. 407

In order to begin the envelope chemise draw the upper foundation lines as explained in the first two lessons as far as the bust line which is on the opposite diagram finished to the front edge at 9 and square a straight line down from 9 towards 10,11 and 12 and continue as follows: Measure from 3 to $t .6$ inches for hip line and cross a line from 4 10 11 . Now measure 36 inches from 1 to 5 which is the normal length for a chemise and draw a line across from 5 to 12. Then lengthen the center back line from 5 to 6 with 14 of 36 inches amomenting to 9 inches and square a short line of about 3 inches cut from 6 towards 7 . Now make the center back; measure in at the center back and waist line from 3 to $35,3 / 4$ of an inch and draw a stra ight line up irom 35 to 1 and from 3.5 against + down to 7 . which will complete the proper shape of an envelope chemise.

Now prepare the armhole. Divide equally the space of the armhole between 17 and 22 making 27 and draw a straight line down from 27 towards 2 : to 29. Take out at the waist line frome each side of $2 \mathrm{~N}^{1}$ to 30 and $31,1 / 2$ inch each and extend at each side of 29 at the hip line to $1+$ and 32 also a $T / 2$ inch. Then connect lines from 27 to 30 and from 30 against 14 down to 33 which will complete the side seam of the back. Draw a line from 27 to 31 down against 32 to $3 t$ which will complete the side seam of the front. Shorten cath side scam at 3.3 and 34 about 34 of an inch cach and connect 3.3 with a similar curve, as hown on the diagram, to 6 which will complete the botom of the hack part.

To finish the front measure from 12 to 36 the same space as for the bottom of the 1 ack from 6 to 7 which is 3 inches and then raise up from 36 to 37.1 inch, and connect 37 to 34 which will complete the bottom part oi this envelope chemise. Now finish the armhole lower with 1 inch from 27 to $3^{3}$ and curve the back armhole from 21 to $35^{\circ}$ and the front armhole from 2.5 to 38.

Now make the opening cut-out for normal use as follows: Raise up at the center back at the breast line from 2 to $\mathcal{X} .1$ inch, and-measure the shoulder strip at the back from 21 to 39. 2 inches, and curve as shown on the diagram from 39 to $\mathbb{X}$. Measure the front shoulder strip from 25 to 40 and curve from 40 towards 26 to 9 . This will complete the envelope chemise with all necessary seams allowed, for size 36, or which may be followed up to any other size according to the table of proportions given in the front pages.

## I. ROSENETIDD'S SYSTEM





## WOMAN'S ONE-PIECE NIGHT GOWN-SIZE 36

## Lesson No. 408

To begin the one-piece night-gown draw the fomblation lines aceording to the first and scond lessons and measure from 3 to 26 . 6 juches for hip line, and draw a line across from 26 to 23. Then measure the fall length of the parment which is about 60 inches fincluding atmall hem and measure, therefore, from 1 to 27 , (o) inchere for the fuld lenerth and draw a line from 27 to 2 S . Now continue as follows:

To continue divide ecpually the armbole space as shown on the opposite diagram betweens $x$ and $1+$ making. 30 . Fixtend at the hip line from is to 20 . 1 inch and draw a line fomm 30 atainst 29, fown to the bottom to 32 . Katise up from 32 to 35 . 1 inch and curve from 35 lost to 27 which will finish the side seam and hottom of the back.

Now make the front side seam. Mcasure $1 / 3$ of hip on the hip line from 23 to 33 amonnting to $1+3 / 8$ inches aceording to 4.3 inches hij and then connect a line fom 30 against 3.3 down to $3 t$. Kaise up at $3 t$ also 1 inch the same as the hack and add at the bottom
 will finish the side seam and the bottom of the front.

Finish the edge of the front by drawing a straght line down from 19 against 21 down to 36. ' Cure the armbohe as usual ber curving the back armbole from 12 to 30 and the front anmbole from 25 against 5 to 30 . Is no seam is wanted at the center bate dednet $3 / 8$ of an inch from 1 dowin to 27 . 'This will complete the one-piece night-gown. Sere next lesson for the night-gown with a yoke.



## WOMAN'S NIGHT-GOWN WITH YOKE SIZE 36

Lesson No. 409

In order to make the night-gewn with a yoke make the complewe drat of the one-piece night-gown and act as follows: Draw a line across $1^{1 / 2}$ inches above the berast line at shown at 2 at the center back. Then draw a line across from the armbole wat from 2 to 37 and allow 2 inches parallel all the way down to $3 \mathrm{~s}^{6}$ wheh will increase the fullness for the back.

Now cut the line across the same way 1 inch above the breast line at the front and extend from 21 to 39 . 3 inclues for fullness at the front. Now extend 1 inch for imton-stand at the front part which is from is to 41 down to t2. Remember we are to allow spectal seams of $3 / 8$ of an inch at the eplit of the yolie hetween the upper and lower parts of the font and back. Note that the allowance which is made for fulthess at the front and back is to be gathered in and then followed tosether with the upper or yoke part.

Should a low neck le wanted at the neck for thin or the one-piece might-gown follow the curses which are shown accorling to the doted lines at the back part which is shown at 9 towards the center hack and at the front from 1.5 towarde 42 . which may he changed to any opening wanted, from time tu time.



WOMAN'S PRINCESS SLIP-SIZE 36

## Lesson No. 410

To begin the princess slip dran the usual foundation lines. Neasure the lip line from ( to D. 6 inches and eross a line from D to K . Then measure for the bettom line from the waist line which is fromi $\mathcal{C}$ to 15,28 inches which will make a shout length of a skirt to which an additional bottom ripple of 12 inche: may be comected. If a full kength skirt effect is wanted it shatl be 40 inches made between ( and 15 . Cross a line from 15 to 13 for the bottom line. Neasure from ( ${ }^{(10} 12,2$ inches and from 1 ) to 11 , $1^{1}$ 2 inches and connect at line from 12 np to 11 and from 12 against 11 down to 15 . . Whow $3^{3}$ oi an inch to the shoulder from It to A preparing for the scam which crosses the shoulder half waty from 1. to N making 26. Then measure from $12\{016,1 / 6$ of si\%e amounting to 3 inches for sizo 36 and from 11 to $18 .+$ inches and draw a line from 16 to 26 and 16 towards 18 down to 2$\}.$ Take out from 16 to 10 . ${ }^{3}$ of an inch and from 18 to 17 add :f of an inch. Commect antraight line from 19 towards 17 down to 20 and from 10 make a curved line up to 26 to meet the straight line on the breast line.

Now take out at the side seam from $C_{1}$ to 9 and $1:$ to 5,3 of an inch and on the waist line from if to 10 ,, 2 inch and connect from 9 to 10 and from 10 against E down to 25 which witl complete the side seam of the back pate.

To begin the front part talie out $1^{\prime} 2$ inch from + to $\delta$ on the waist line and connect with a line from $3 \quad u p$ to and 3 against 5 duwn 4022 . Then divide the chest between
 $f^{2}$ inches for si\%e 36 and measure the same amount with is wf an inch added which amounts to 43 inches from 7 to 30 on the waist line and draw atraght line from $K$ towards 30 down to 29 which will make the dart of the front. Note that the space between 6 and 7 is $3_{1}$ of an inch and square a straight line from 1 ' $u$, to 23 and from 1 to 7 down to 14 . From 13 ti) $1+$ is 1 inch.

Now complete the dart. Divide the space between $X$ and 30 for the height of bust making 2 . Diside the front shoulder between L and 11 making 27 . Then allow $3 / 8$ of an inch to each side of 36 and 37 . Connect a line from 36 to 28 and draw a straght line from 37 towitels 38 with the line parallel which is drawn from 36 to 28 and fill in the brake with a curve from 36 towards 2 , to 30 . Now curve the inmer part of the front which has the most part of the bust from 37 towards. 3 d down to 2 A and 31 . Draw a straight line from 30 to 32 which will complete the dart at the front whieh will bring the proper bust effect.

To make the proper opening for the princess slij raise up from ${ }^{\circ}$ to 23,2 inches and square a line from 23 to $2+$ amomnting to 4 inches and draw a straght line up towards 37 as shown hy the dotted line. If a round opening is wanted follow the dotted curred line from 27 to 23. "The same space may be used at the back by measuring from L to $A B$ as the space meatures from $W$ to 37 . Then cume as shown by the doted lines from $\triangle B$ to $A C$. IC is half the space between $A$ and $B$ at the center back. Note that this garment is ent with all necessary seams allowed, and is cut with a center seam in baek which is proper for this kind of fitting.



## WOMAN'S BLOOMERS OR KNICKERBOCKERS, FRONT PART-SIZE 36

Lesson No. 411

In order to begin the front part of the bloomers use measurements specially elesigned int this purpose wheh are partly explaned in the front pages and measurements for this are as follows:


To begin to draft wateh the diagram un the uppusite page and drim lines from it $K$ and I to C. Acasure from I to $B, 12$ inches for rise meatomement and irom I to $C^{\circ}$.
 I to $K$ waist line; from $B$ to 1 hipline and from $C$ to $T$ kuee line. Then contime drafting according to the hip measurement and measure from $B$ to 11 hali of hip meatimement

 mont amomanting to $6 \frac{1}{4}$ inches, according to 2 i inches wast. From of to 1 allow 2 anches

 make at side hip curve from ( O U down to the lanee line to C , as shown on the diagram.

Finish the front curve part by measuring the space from If to I and raise the same anmont from 11 . to $I$. Then comect a line from $I$ to 1 and divide equally, making It and from II to N mark $1 / 2$ inch and curve from ]. N (w I. In order to finish properly the inside sem take $\frac{1 / 2}{2}$ inch from I to $I$ and draw a straight line down from I to 'l and curve ats Ghown on the diagram from I to $\Gamma$, which will complete the cutire front part of the hemmers.. sice next lesson for the back part.

## BACK PART-SIZE 36

Lesson No 412
To begin the back part of the bloomers hate the complete draft or pattern of the font part, as shown on the diagram on the npposite page, and then continue as follows:

To begin to draft draw the waist line out from K and L t . A and I and measure from L. to $1 \frac{1}{4}$ of waist measurement amounting to $6 \frac{1}{4}$ inches, according to 25 inches waist and from $A$ to $\mathrm{l}^{\prime}$ allow 3 inches for fullness or clarts. Then allow from $B$ to $U$ also 3 inches for fullness and at the bottom from 1 to 2 allow $11 / 2$ inches.

Now finish the back crutch part. Raise the hack from $L$ to $k$ with 3 inches and connect a stabight line from $K$ to $J$, where the curve of the front crutch begins and curre from $K$ to f and I ont to X . From I to 11 is $1-12$ of hip measurement and irom $1 /$ to I is 1 inch allowed for seams which altogether amounts to from I and $\$ 1,2 \%$ inches allowed for the under part. Then allow from 3 to $4.11 / 2$ inches for seams and fuliness. This will complete the back part of the bloomers with gathers around the waist and knee.

If a fitted waist is wanted make a dart on top of the back part as shown as fullows: Divicle from ${ }^{\prime}$ ' 0 R, making ( $)$ and draw a line down from 1 ) to $\%$, which is $41 / 2$ inches. Take out from each side of () to $V$ and $I V, 1$ inch and make eurves from $V$ to $T$ and $I V$ to T . This will complete the bloomers with all seams allowed.

If buttoning is wanted for boomers at the front part make the opening for such buttoming at the front from $R$ to I. If buttoning is wanted at the side malic the opening as described at the back side seam from $P$ to $U$. If back-buttoning is wanted make the (pening at the back from $k$ to $I$. According to this method comenient opening for buttoning will be obtained.




## WOMAN'S DRAWERS, FRONT PART-SIZE 36

## Lesson No. 413

In order to begin the front part for woman's chrawers use meationements specially tesigned for this purpose, which are ats follows:

| IVaist | .25 inches | Kise ....................... 18 inches |
| :---: | :---: | :---: |
| Hip | . 43 inches | ()utside Length........... 26 inches |

To begin to draft watch diagram on the opposite page. Draw a line from 1 to $t$ and 1 to 3. Measure from 1 to 2 . 18 inches rise. According to medium height the rise measurement is 12 inches. for drawers add 6 inches additional for a combortable rise, making it IN inches. Them measme from i to 3,26 inches ontside length which is taken at the sirle of the hip from the waist to the knce. Now draw a lime across from 2 to 8 and 3 to 15. Heasure from 2 to 7 , half of +3 inches hip amomang to $103^{3}$ inches and irom 7 to 8 meanne 1-6 of hip measurement amounting to $35 / 8$ inches.

To continue spuate a line $u p$ from 7 to + and measume from + tw 10 . $^{1}+$ wi 25 inches hip measurement amonnting to $0,+$ inches and from 10 to 11 allow 2 juches. Forom 11 to 12 raise up 3 of an inch and comect a line from 12 to 4 . Now measure the space from 7 to st and place the same amount from 7 to 9 and connect a line from 9 to $\mathfrak{N}$ (urse from to if with a $1 / 2$-inch deepness, as shown on the diagram, which completes the ernteh of the front part.

Now finish the inside seam of the front. Draw a straight line from + asainst 8 and draw a line down from \& to 15 to the bottom line of the front, which will in this way complete the inside seam with all the fullness neerled at the bottom. Now finish the untside seam and hip of the front. Neasure from 2 to 13 at the hip line 21,2 anches and make a curve with a curved ruler from the waist point irom 12 against 13 and continue straight down to the bottom to 14. Which will complete the front part. . Sere the next lesson for the back part.

## WOMAN'S DRAWERS, BACK PART-SIZE 36 Lesson No. 414

To begin the back part for drawers make the draft of the complete fromt part as shown wh the upposite pate and then contmue with the hack as follows: Divide the space of the front from 2 to 8 on the hip line, making 16 and draw a straight line up from 16 toward: 19 my to 18. Measuc from 19 to 18,3 mehes and draw a line up to 19 against 20 to 21. Heasure from 19 to 20 , $1 / 4$ of waist measurement amounting to $6 \frac{1}{4}$ inches according tu 25 inches wast. From 20 to 21 add 3 inches for seams and fullness and connect a line irom 21 to 1 k . Then allow from 13 to 22 and $1+$ to 23,3 inches and connect with a curved line from 21 to 22 and 23, which will finish the outsicle seam of the back part.

Now connect a line for the back curve part from 18 to 9 and continue the corve according to the front crutch from 9 towards 8 out to 5 . From is to 5 is $1-12$ of hip measmement and 1 inch allowerl for seams amounting altogether to $2, \%$ inches. Draw a line from 4 against 5 down to 6 , which will complete the inside scam of the hack part which is comenectalle to the inside seam of the front to $S$ and 15 , and which will complete the entime draft of front and back for woman's drawers.

In order to cut out the front and back parts of this draft trace off each one accordiner to the heavy lines as follows: To begin to cut or trace the front begin from 12 to 13 and 14 acrose to 15 mp to 8 and from 8 to 9 up to 4 and connect $t$ to 12 . This will cut out the front. To cut out the hack part begin from 21 to 22 and 23 and from 23 acress to 6 up to 5 from 5 towads 8 and 9 up to 18 and from 18 connect to 21 . In this way the front and back will be entirely cut out, including the necessary scams.

If buttoning is wanted at the side take half of the rise length hetween 20 and 22 at the lack part and between 12 and 13 at the front part. Which measures full 18 inches and half of this amonnt is to lie left open from the waist down, which will amount to 0 finches ion buttoning if side buttoning is desired. If front or back buttoning is desired make the opening from the waist line 12 inches down, whel will be suffeient and consenient seace for buttoning.


This is the front and back of the two-piece crawers. See separate lesscn fci the one-picce circular drawers.

## WOMAN'S PANTALOON PAJAMAS, FRONT PART-Size 36

Lesson No. 415

In order to begin the pantatoon gajam as follow the ontines according to the principle of the bexmers and the measurements for the same are ats follows:


To begin to draft diaw lines from \& to $\mathcal{K}$ and . I tu D. Neasurc frum . I to B 12 inches rise and from. I to $D+1$ inches ont sirle length. Work the hip the same way on the hip line. $1 / 2$ of hip measurment from B to $|\mid$ and from $| \mid$ to $\mid$ measure $1 / 6$ of hip measurement. Kaise up a straght line from 11 to $k$ and measure $1 / 6$ of hip from 11 to ! and cross a line from I to X . . Icasure from $\mathbb{K}$ to 0 , $1 / 4$ of waist measurement amomiing to $6 \frac{1}{4}$ inches according to 25 inches waist. From () to l' allow 2 inches for seams. Kaise up from $I^{\prime}$ to () a $1 / 2$ inch and lower from $k$ to $K$ with $1 / 2$ inch and connect a line from $K$ to (). Then curve from () to $X$ down to B for hip curce.

Now finish the lower part of the front. Divide the space equally between P and I making S. Then measure the space from $B$ to $S$ and place the same at the bottom line from D to $I I$ and draw a straight line from $\|$ towards 5 ip to 1. . Neasure from IV to 3 at the bottom line $1 / 4$ of bottom measurement which is is inches, amounting to $f^{2}$ inches. lirom $\mid$ to (i at the hip line measure 1 inch and comect (ito 3 , which makes the inside seam and comect with a cumed line from I towards 1 , which is about at the knee linc. This will complete the front part with all scams allowed

## BACK PART

Lesson No. 416

To continue with the back part mote diagram of the hack. First complete the front part and then continue the back as follows: Kaise the center line up from $L$ to $K$ and measure there 3 inches. Measure from L to $.1 .1 / 4$ of waist measurement amounting to $61 / 4$ inches and from $A$ to $\Gamma$ allow 3 inches for seams and gathers for the hack part. Fhen comnect a line from $P$ to $K$. Connect a line from $k$ to $J$ for the back crutch part and continue with a curve from I towards I to 11 and $I 1$. The space from I to 11 is $1 / 12$ of hip measurement and irom il to XI is 1 inch allowed for scams. Note that 11 and II is $1 / 2$ inch lower from the hip line. Then add from 1 to $Y$ and 3 to Fi $1^{1 / 2}$ inches and the same amount of $1 \mathrm{~K} / 2$ inches should be allowed from + to $1:$ and 2 to $C$. Fom $B$ to $U$ at the hip line allow 3 inches. Then curve, as shown on the diagram, the inside seam of the hack part from 3 towards $Y$ to $F$ and the nutside seam of the back part connect from
 will complete the hack part with fullness arouncl the waist.

If fitted pantaloon pajamas are wanted around the waist take ont the dart by dividing equally from $P$ to $k$ making () at the back wast line. Draw a line down from $O$ to $\Gamma+$ inches and take out 1 inch from both sides of $\cap$ to $V^{\circ}$ and $I I$ lost to $T$, as shown on the diagran. This will complete the back part of the pantaloon pajamas with all necessary seams allowed.



BACK PART.


FRONT PART


## WOMAN'S ONE-PIECE OR CIRCULAR DRAWERS-SIZE 36

## Lesson No. 417

Io make the one-piece is circular drawers cut ont the front and hack parts of the drawers explained before and then mark the front out, as shown on the opposite page, which is as follows:
$T$ O begin, copy the front first from $A, B, C, D$ to $E$ and place the upper part of the back part to the upper part of the front part, which makes the connection of the waist between the front and back parts at $D$ and $F$, and at the bottom between the front and back, which is between E and G, allow 12 inches space.

Then continue by copying the balance of the back part from F and H down towards I and I and from I to G. Then fill in the space at the waist brake by making an eren circle curve from $A$ towards $K$ and $H$. The space of filling in from $F$ and $D$ to $K$ shall be 2 inches and then make an equal round curve for the bottom from $C$ towards $L$ out to 1. Note then that the front inside seam, which is from $B$ to $C$, is to be connected with the back inside seam, which is from J to I. According to this instruction we will have the complete one-piece or circular drawers with all the necessary seams allowed.


## WOMAN'S ENVELOPE DRAWERS-Size?

Lesson No. 418

In order to begin the envelope drawers nonte that this garment is cut on the principle of a circular skirt which is followed accorlmge the wast and hip measurements.

To begin to draft draw at line from It ( C measuring hali ni waist meazurement amometinge to 12r, inches according to 25 inches waist. Then square a lince up irom $C$ to 1 ) and measure of inches for the hack raise. Measure from 1) twands (i 1212 inches, which is hali of waist measurement and draw a line irom I) to (i and square a staight line chown




 ing the back line. Now measure fom i) to 1,2 finches latek length. Firom $L$ to 5 mean ure 9 inches for the cusclupe effect and form $\stackrel{*}{ }$ to $K$ matie 3 inches and curve fran $k$ th 1 . as hown on the diagram. Wake the side Iength also 20 inches from It to $\%$ and
 where the curse is lost is the same amount as from $L$ to S.

To make the side opening for the envelope drawers divide on the waist line from
 will be the proper place for ofening for the ensclope drawers.

## THE PRACTICAL DESIGNER



# WOMAN'S ONE-PIECE PAJAMAS 

Kimono Style, Front Part-Size 36

Lesson No. 419

To begin the front part of the one-piece pajamas continue partly with the outlines of the first lesson in the following manner. Draw a straight line from 1 to 6 and 1 to 5 . Measure from 1 to 2,7 inches back depth and 2 tu $3,151 / 2$ inches waist length. Then measure from 3 to 4 , 18 inches rise and from 3 to 5 , 11 inches uutside length and draw a line across from 1 to 5 which is the top line. 2 to 7 hreast line, 3 to 8 waist line and $f$ to 9 crutch and 5 to 10 bottom line.

Now make the upper part of the pajamas by measuring from 2 to 11 and 1 to $12:-6$ of 36 inches amounting to 3 inches and the same amount should be measured from 12 tw 13 and from 1,3 up to 14 . Then draw a line for the front shoulder from 14 against 1 out to 23. In order to finish this line measure the lack shoulder and slecre from 18 to 20 and apply the same amount from $1+$ to 23 . Then square a line from 23 down to $2 t$ and lower the armhole from 2 to 22 with 3 inches and measure the space from 1 to 22 and apply the same amome from 23 to $2 t$ which amounts to 10 inches and connect 22 to $2 t$ which will complete the kimono slecere for the front part.

To finish the front part measure from 13 to $15,1-6$ of size amounting to 3 inches and allow $1 / 2$ inch for a scam. Then measure on the breast line from 11 to 16 . $1 / 4$ of si\%e amonnting to 9 inches for size 36 and curve from 15 against 16 down to 17 and 18 . Neasure from + to 19 on the crutch line half of 43 inches hip amomnting to 103 inches and draw a straight line up from 19 towards 18 to $17,8,7$ to 6.17 is half the space between $\&$ and is.

Now finish the lower part of the pajamas. Measure from 19 to 9, 1-6 of hip measurement amounting to $35 / 8$ inches and make the same amount from 19 up to 18 . Connect a line from 18 to 9 and take half between 18 and 9 making 21 and curve a $1 / 2$ inch below 21 to 9 from is, as shown on the diagram. Now take half between 9 and 19 making 20 and square a line down from 20 to 10 and make a curve from 9 to 10 , as shown on the diagram. If a straight side seam is wanted use the straight line from 4 to 5 . If a shapy effect is wanted take $1 / 2$ inch off at 5 and follow the heary line from + to 5 .

For button-stand allow 1 inch which is to begin at the front neck at 15 and continue the same down to 17 which is about the proper length of opening for pajamas. At the same time, make the curve of the front nock as shown on the diagram. If more opening is wanted than the natural neck curve follow the trace line below the neck as shown on the front and back diagrams which is 3 inches cut out from the ordinary neck curve. This may be changed for more or less opening which, as a rule, is followed according to the style, from time to time. This completes the pajamas with all seams allowed.


## THE PRACTICAL DESIGNER

## WOMAN'S ONE-PIECE PAJAMAS

Kimono Style, Back Part-Size 36

Lesson No. 420

To begin the one-picce pajamas mse measurement, aceording to the proportions of size
 amd 1 to $5 . \operatorname{los}$ sume fom 1 to 2.7 inches back depth ats for the first lesson. From 1 te 3 measure $15 \frac{2}{2}$ inches wast length and from 3 to + meature ls inches rise length. Then lraw all line across irom 1 to 5 tup line: 2 to 6 breast line: 3 to 7 wast line and + to is
 commee a lime from 5 tomards is down to 12 and measure +1 inches outside lengeth froi. 7 (1) 12 and form 12 draw a lince across to 11 which is the bottom line.

Now make the width of back. Take hali between 2 and 6 on the breast line making 14. From lit to 15 allow $11 / 4$ inches. Measure the space between 2 and 15 and mate the same space fom : to 16 and combect a line from 15 to 16.

Now make the back neck. Neasure from 1 to 17.3 juches and raise uj) from 17 to 18 . 1 incla and curie for a close necle from 1 to 18 . Then draw ont a line for the shomber and kimomos slecte irem 18 against 16 out towards 19 and 20. Now square a line down irom 20 to 21 . The space from 19 to 20 is 12 inches ior a shöt kimono sleeve. Lower the space for a decp armhole from 6 to 22,3 inches for a kimono armbole. From 2 to 23 make 1 inch in. Acasure the space from the line lelow 5 to 22 whel amomits to 9 inches athel measure the same amomnt of 9 inches irem 20 to 21 and commect 21 to 23 and make a curce from 2.3 tuwards 8 which is at the side line lost to the eruteh line. Should we want a nommal shoulder with armbole syuare a line from 19 down to 15 wheh will give the normal width of shoulder from 18 to 19 . Shonled a low cut-ont neck he desired take half of the shomlder width between 18 and 19 and also half the space at the center back between 1 and 2 and mate a curve as shown by the doticel line from the top shoulder to the center back.

To complete the lower part of the pajamas measure at the erutch line from + to 10 , 16 of hip amonnting to 35 incles and comect a straight line up from 10 to 1 and square a line down from 10 to 11 . Then add another $1-6$ of hip measurement from 10 to 9 and curve from 9 to 11 and make the crutch curve from 9, as shown on the diagram, up towards the center back line which goes to 1 . For more fulmess at the side seam cut out draft accoreling to the straight line from is to 12 and for a narrower bottom take off from 12 to 13. ' 2 inch and malue 13 lust wis wheh will complete the back part of the one-piece pajamas, with all seams allowed.

For back buttoning with gathering fom these patjamas ice back part of combination chemisc.


WOMAN'S COMBINATION C,HEMISE, Back Part-Size 36

Lesson No. 121

In order to berin the combination chemine use the similar foundation outlines of the



 and 5 and + and $1:$ is $1-3$ of size amomang to 12 inches the same as explathed before.

To continue the combination effect for this back part measare from + to 10 and 10 to




 amel 2.5 is 1 inch. Remember that according to this instruction we will hate the armhole 3 inchese deep from of to 22 amd, therefore come the ambole, ats shown wat the diagam, from

 ordinary lack part for the combination chemise.

If back buttoning with fullness i- desired note the following changes. Falke half hetween 2 and + which is hetween breast and crutch lines making 11 . From 11 draw a hine out to 12 and 1,3 and measure from 20 to 12 , 3 inches for gathering: 1 in order to cut in the opening divere the space equally between 12 and 13 making 21 which is the place to cut in for the (e) ening of back buttoming. as shown on the ditwam. Then commet a line fom 12 to 10
 for hack huttoming with gathering around the hack part of the hip.

For cutting out the back part for this paricular style legin to cut the hack from the
 thwarts ! down to $C$ and from $C$ cross to $D$ up towards is to 1.3 and 2.3. Ls a rale, this gament is to be cut with a low neck opening. Therefore take hatf between 1 and 2 makion 11 and take 3 inches from 18 to (i and cont from 11 to 6 and itom (i w 10 which combletes the hack pat for this garment with all seams allowed.

## WOMAN'S COMBINATION CHEMISE, Front Part-Size 36

## Lesson No. 422

To begin the front part ior the combimation chemise dhaw outlines on the same principle as for the back or exactly the same as for the front pamas. From 1 to 2 is 7 inches !ack depth: 1 to 3,1512 inches waist length and 3 to $t$ is $1 \mathrm{~s}^{2}$ inches rise. Then draw lines irom 1 to 6.2 to 7,3 to 8 and +09 and continue the front part the same way as for the menepiece pajamits with the excention of making the armbole accordines to the decpuess of $\therefore$ irches between 2 and 22 and make a curve fom 1 to 22 for the front armbole. Then draw a line down from 9 to 91 and measure there 8 inches and draw a straight line acrose irom $) 1$ to 21 and extend from + to 20,1 inch. Now draw a straight line from 22 agatinst 3 lown towards 20 and 21.

Now allow for button-stand 1 inch from 15 down towards 16 to 17 in the same mamer as for the one-piece pajamas. If fatl length buttoning is wanted to the eruteh enntime the hattoning to lí. Then continue the curte of the cruteh from is to 9 as usual.

As a low nects is wanted for the combination chemise measure from it to $C$, 3 inches a. $\quad 1$ divite from 15 to 16 making $D$ and curse from $($ to $D$ ior a low neck, as shown on the diagram ( Otherwise, this front part of the combination chemise is completed with all eccosay scams allowed. lior cutting ont follow the heary lines of this diagram.



WOMAN'S STEP-IN CHEMISE—Sizc 36

Lesson No. 423

In order to beyin the step-in chemise, prepare the complete fomblation of the ardi-


To continue for the step-in chemise, measure fom the lowast line fown, which is fom
 patt of the chomise. Then there will remain abalance of 11 inches fonm 7 to 5 and your will ante that 5 in the bottom line of the ordinaty cheminc. Non loner from 7 to it at the conter hack line with I inch and at the fromi from 77 to 5.5 hater with ? inches and ennnet I line form ty to 36 , which completes the length in the proper shape for the hatio. Dlan connect a line fomm 55 on 3 , which will finish in the proper shape the boteme of the front. IV hen these bottom lince ane completed we are abont realy to prepare the separate patso of
 is the beginning line for the luwer part or step-in effect.

To complete the step-in effect for the back part, meature the space letween 5 and 6 . and mote that the line at 6 is the line continued from the econter batek seam of the chemise. which is continued from 35 tomatra + down to 6 . Therefore, measure the space from 5 to 6

 the diagram. lost to 33 , which will make the buttom came of the back part of the step-in
 to 81,3 inches and comect with a lince from 81 to so. Vou will note that the space form 80 to 81 measures the sime amount as the space at the back fom of to sis and then curve the
 the front part for the step-in effect.

The neck opening for this gament, as a rule is made om the same principle as for the urdinary chemise, with a slight difference that it is made with a lost shoulder strip. Therefore take half of each shoukder, for the hate from 20 to 21 , making s), and curve from

 to the botwom wif the ambere, as shown on the diagram. Shond a 1 shape neck be wanterd, follow the tatace lines for the fromt from to to ${ }^{\circ}$ and for the bate from $3^{4}$ to $\times$.

To cut out the step-in effect, note that the straight line from 7 to 77 is the wp line of the step-in effect and therefore cut out the back from 36 to 7 , to the center back down to
 so and 81 , and from 81 to $3+4$ e 637 . When these parts are cut out you will mote, as a rule, there are no seams allowed at the side of the step-ine effect, and, therefore, see instructions below.

Aso mote that aceoding to the msual rule the hottom of the step-in from 6 w sk and 80 to 81 are seamed tegether, But for more practical use according to our dingram we show the same can be buttoned. Therefore allow 1 inch button-stand at the buttom of the back
 complete with all necessary scams ailowed.

## Lesson No. 424

To make the step-in effect in one-picce, cut out as explaincl and copy the back part as shown wn the mimiture diagram foom A, B, C, D, to Fi, and place the front side seam next to the back siele sean from $\bar{F}$ to $D$ and $A_{i}$ to $E$ and continue copying the front part to II, I and I and connect I to Gi, as shown on the diagram. See that the lrakes are filled in at the top at $D$ to $F^{*}$ and at the bottom at $G$ to E. This makes the step-in effect in onepiece with all necessary seams allowed.



THE STUDY OF THE STOUT FORM

## Lesson No. 425

In order to clothe the stout form properly we lind many changes in fomality. The chatse atre shown in many respects as there are regular stouts, shurt stouts and extra stouts. Nute illus: ation and table of proportions.

The regular stout form is built in regular natural waist length. The width of batek is proportionately built to its si\%e The bust measurement is increased according to its proportions. The all-aromed wast is mereased or ofer-hnilt, acouding to si\%e, which makes this form a stont.

The short stout form is ereatly changed in matmal naist length, I eines a great deal shorter on account of the height. The bust meatsurement is somewhat full and shows a great deal larger on account of the short height. The waist is particularly over-built, similar to the natural proportions of a stout. 'The sleeve is a great deal shorter than for the regular stout or the proportiomately built person. Is the armhole of every stont is to occupe lasge deepness, the under-arm for this short stout is particularly very short.

The extra stout form is greatly changed on account of its height. The back depth and natural wast length is long. The sleeve length is full length, similar to the regular proportionate large size, which may le for the extral stout form irom lo to 20 inches.

In order to make the foundation pattern, make the foundation outlines for drafting according to the table of proportions given on the opposite page for any branch of stonts desired. By all means follow the rules and regulations as for the regular proportions, with the exception of using the measurements for stouts. The morlel size for short stouts is size 11 and the model si\%e for regular stouts is size +5 .


Proportional Stout Measurements for Wome'1 s Garment" -for Height of 5 feet 6 inches

Lesson No. 426


Short and Stout Proportions-for Height of 5 feet 4 inches.



WOMAN'S TIGHT-FITTING DRAWERS, FRONT PART—Size 36
Lesson No. 427

 ami ankle amd mse meastrements. as fullums:

| ()utside length | +1 inches | ドnc. |  |
| :---: | :---: | :---: | :---: |
| Kisc | .12 inches | (illi | . 15 |
| \|1:aist | 25 inches | , nnkte |  |

In order to begin follow the upper part from waist thip ats explatined for the pantaloon




 Which is from the waist to the hip ot the side seam. Then divirle the space
 towards $1^{\circ}$. $\|^{\prime}$ and $\%^{\circ}$. Which makes the center line for the fennt part of the tight-litting drawers.

Now make the knee, ankle and cali as follows: Note that the linee measurement is 1.3
 and 2. Neasme 15 inches for calf taking If of 15 inches amombting to $3{ }_{f}+$ inches at vach side of 11 (o) 3 and $t$ on the cali line. Fom me the ankle or botom of the front see that the ankle or hottom amounts to 12 inches. Take if of 12 inches amonnting to 3 inches at each side of 1 l to 5 and 6 . Make curves accordine 10 the diagram of the front part for the outside from $\Omega$ to $L^{\prime}$ tomards 2 and + down $t 06$ and for the inside seam make a cume from I. 1 and 3 down to 5 . Thic completes the fromt part with all seams allowed.

Back Part—Size 36
Lesson No. 428

To make the back part continue on the front part as follows: Raise a straight line ap
 inches waist amomatines to fily inches and allow from 1 to 1 . 3 inches for seame and full-
 curve from $k$ to the main crutch of the front to J , as shown on the diagram, and curve
 ment and from II 10 M is 1 inch allowed for seams. Ullow It/ inches for seams from 1 to $Y$. 3 to $F$ and 5 to 1 ) and comse the bottom from (i 10 D. Should a more fitted waist be watited follow the dart instructions as explaned in the lesson of the pantaloom pajamas.



Back Part-Size 36


Front Part-Size 36


## WOMAN'S KIMONO EFFECT FOUNDATION-Size 36

Lesson No. 429

In order to begin the kimono effect fomblation draw the orelinary outlines according to the first and seeond lessoms of this volmme as far as the bust with seams allowed and then divite the armbole equally, ats follows:

To begin divide the space between 8 and $1 t$ om the breast line, which is the ambole shace making 26. Draw a line down from 26 to 27 which is at the wast linc. Take rint from each side of 26 at the beast line $t 0.5$ and $25^{2}$. $/ 2$ inch eath athe at the waist line fom each side of 7 to 29 and 30 take ont 1 inch each or whatever the style may reduire and eommect at line for the side seam of the bate from 2 s to 30 and for the front side ecam from 5 to $2^{\prime}$ ). Nake the amhole with 1 henes deeper from 26 to 31 and 32 which is useful for the kimono style.

To make the back part of the kimono style continue a line from the shoubler from 11 twhatels 9 out to . 3.3 and measure from the regular width of shoulder, which is fom 12 tis $\mathbf{3 . 3}$ for at short slece length, 12 inches. Thensquare a line down from 33 to $3 t$ and in order to eret the width of slece measure the parallel space from 35 to 32 and apply the same
 will finish the back patit of the kimone effect.

To finish the front part of the kimomo effect raise 3 inches from 20 to 36 and commect it line from 36 to 4 , which is the width of front shoulder and measure 12 inches for the sleeve length from +10 37. Now measure the width of back slece from 30 to $3+$ about N ! 2 inches and measure with 1 inch adelitionally amomang to $91 / 2$ inches from 37 to $3 \mathrm{~S}_{\mathrm{c}}$. Now eonnect with a line from 3x to 31, which will complete the front kimono sleere.

Now finish the bottom of this kimomo effect fommation the same as for the eorset cover or accorling to any other style this is made to be used. This kimono style fonndation is useful for all garment- that they may be built with a kimono style, such as, might gomas. pajamas, ete. This lesson is complete with all necessary seams allowerl.


## WOMAN'S PAJAMA BLOUSE-Size 36

Lesson No. 430

In order to begin the pajamai bhuse follow the mearurcoments and fonmelation outlincs acouding to the lirst and second lessons of this wolume is fat as the bust meanarement with scams alluwed, and then continne as fulluws:

Make the bottom line for the complete length hy meaturing 12 inches from ( $t=7 . \%$ and drall a line acruss form $\% \%$ to $\%$. This will hring a mormal lengeth for the pajama

 will give the edge of the front. Firom $I$ connect a line up to the front neck point to $R$. Is a rule, a low opening is made for the pajama honse, then draw a straight line form the front shoulder point from $l^{\prime}$ to $1 /$ and allow $1^{1 / 2}$ inches for button-stand irom $l^{\prime}$ to + at the breast line, $\%$ to 5 at the bottom line and comeet + to 5 . Shonld it he necessary to have the hatton-stand all the way mp to the neck continue l'z inches parallel to the front neck edge up to K.

Now make the side seam and armhois. Divide equally the space between 11 and M making $\ .1$ and draw a straight line down from . $\ .1$ to 1 . Fake out from each side of
 We want a more straight side blouse dedes: a riz inch at the botemm line at each side of 1 to 2 and 3 and comect $X$ to 3 and $E$ to 2 . Then raize $\quad$, 4 of an inch at 1 . which is the bottom of the sixle seam and curse $Z i i_{\text {o }}$ o which is the bottom curve of the back and curve from 1 to $\%$ to the edge of the front lior the lottom wi the froitt. Then curce the ambule for ondinary deepness at the back from J , to $X$ and for the front irom T en F . Is now seam back is wanted. follow the stamisht line of the center back from . 1 to $\%$ : anci decluct there 38 of an ineh for $n 0$ seam hack as shown on the eliagram by the dotted tine.

To make the pocket in the patch style at the breast part of the blouse place the same 1 inch in from $\lambda$ to 6 and draw a line from 6017 about $1 / 2$ inch bias from the breast line down. Measure from 6 to 7,5 inches for size 3 . which is a $1 / 2$ inch more than $1 / \begin{gathered}\text { of }\end{gathered}$ size. Now draw a line down from 6 to 9 dud 7 to 8 and measure there 1 inch additional, amomitige to 6 inches and commet $S$ to ${ }^{\prime}$, which will complete the bottom of the pateh pocket which may be changed according to style or taste.

Should a lower pocket be wanted use the same instruction, with the exception that the lower poeket is to be placed at least 2 inches below the wast line. The size of the pocket is to uccupy the same space. This completes the pajama blouse with all necessary seams allowed.



WOMAN'S STANDING COLLAR—Size 36

Lesson No. 431

The standing collar which is mseful bor all hutton-up necks, which is specially used for the pajama llonse, is followed according to the meck measmement, wheh is lt inches ior si\%e 36. To draft act as follows:

To begin draw a line from $I$ to $B$ and $l$ in $D$. . Measure from $A$ to $B, 3$ inches, and from li to D, 15 inches, which is $1 t$ inches for all-aromed neck measurement and 1 inch for seams. Then measure from D to $C, 3$ inches, and connect a line from $I$ to $C$. Now divide from $B$ to D, making 1 , and draw a line up from F , to F . Raise up from B to II and 1) to 1 . 1 inch each and lower from $\mathrm{F}^{2}$ to (i, with 1 inch at the center line. Curve, as

 to 11 and $J$ to $l$, which will complete the stamdinge collar with all necessary seams allowed


WOMAN'S FLAT COLLAR-Size 36

Lesson No. 432

The flat collar is also used on all hutton-mp-neck gaments and lays flat over the shoulderse and produces mo stand. In order to produce the same nse the front and back of a button-up, garment and copy the neck of the 1 ack lirst. as shown on the diagram, fom Ito C. C to D. A to B and B to D. Then lapeoter the fromt patt at the shoulder seame by deducting a $1 / 2$ inch at $C$ to $F:$ and $D$ to $F^{F}$ and continne copring the front neck from C to $A$ and $C$ to 11 aceording to the edge of the fiont and eopy from 11 to $D$ all aromad to fi and $R$, which will complete the width of the collar.

The width of this collar, which is from I In Ii and (i to 11 . shall be ahont 4 inches. which will complete the collar in a 3 -inch wilth when all seams are deducted. - Aceording to this instraction all scams are allowed.

THE PRACTICAI DESIGNER

WOMAN'S ONE-PIECE, SLEEVE ON TOP OF ARMIIOLE

Lesson No. 433

In order to begin the sleeve note that ini molerneat where sleoves are necessary anly
 showing how simpl! we can obtain at one-piece slece on toj) of the ambme which eates a sereat deal wi time and material. If hen at onc-piece seeve is desired complete the entire dratt of the gament wanted with an equal divided ambole and then act as foblows:

 comect a line from 2 to $t$ as shom on the diagram, and draw a line down at the 1 ate fons 3 to 5 and at the fromt from 1 to 6 . Neasure the inner slecere length which is for the but length slecte fis inches and mensure this amount from 3 to 5 and 1 to 6 . Then connect a line for the lentom of sleeve from 5 to 6 . Now mote that in owder wemplete the head of the slecere we come for the back part of the slecte from + towards 11 to lifi and for the front head of the sleeve we curve from li towards 12 to 2 . This will complete the upper patt of the slecte which will fit the patticular ammole the sleeve is drafted on.

To finish the bottom of the slece to any width desired, we shombld first decise then width wanted. lion instance, make 12 inches for the hottom on cuff of this sleoser lof sich case, measure from 5 to 7 at the back part finches and at the front part form 6 of 8 alano inches and combet with a curved line as sinown on the diagman, from lifis 7 for the back slecere and curve from lifor for the front sleeve. Then add a r'z inch at the bontom slece foms 509 and conncet 9 to 7 and the same way add a ombect with a curve from \& to 10 , which wi I ermmplete the entire one-picece slecere with all necessary seams allowed.

If the sleeve is desired in $1 / 2{ }^{1 / 4}$ or ${ }^{3}$ Iength, then act as follows: For a $1 / 2$ lenerthe slecte


 inside length from the armbole down, which amonnts 101.3 'z inches. The full length sleeve as the diagram shows is from the amhole down and amounts fo fishes.


## WOMANS TWO-PIECE OR FOUR GORE PETTICOAT-Size 36

Lesson No. 434

In order to begin the petticont nse the following standard measurements or for stylisin mentirements sere the l'ratical driser of l'ropurtions.

| IV:aist Hip | 25 inches | Front Leengtl | 10 inchos |
| :---: | :---: | :---: | :---: |
|  | 43 inches | Sicke I.ength $\ldots$.............tl inchus |  |
|  |  |  |  |

To begin draw a line from 1 to 2 and 1 to 3 and measure balf of 25 inches waist measurement from 1 to $t$ amounting to $12 \frac{2}{2}$ inches. Then allow from 4 to 3.3 inches for fullness and allow 1 inch additiomal if mly a side seam is wanted. which is useful for a twophece petticoat. I! this petticoat is supposed to be four-gore allow 2 inches for seams and 3 inches for fullness for which the tutal amomet, in such ease, will be 5 inches between + and 3 . Fhen wise mi iomm 3 (1) $5 . t_{1}^{\prime}$ inches and comnect with a line from 1 to 5 . Kaise up from 1 to 9. 1 inch and curve, as shown on the diagram, irom 9. 10 is 5.

Now measure from 1 to 6 and 5 to 7,6 inches and draw a line from 6 to 7 making tiaz hip line. Neatsure from 6 to 7 half of 43 inches hip measurement amonnting to $21 \frac{2}{2}$ inches and 1 inch additional for a seam making $22 \frac{1}{2}$ inches. Draw a line from 5 towards 7 down th \& :nd meature fom 5 to 8,42 inches back length. Now divide the space on the waist lin.: irom 9 to 5 equally making 10 . Neasure the bottom from 2 to S making 11 and connect a line from 10 to 1 and measure from 10 to $11, f 1$ inches side length. Nuw curve the bottom irom 2 towards 11 to 8 . This completes the petticoat in tworpieces or four-picees with gathers at the waist.

Should no gathering be wanted around the waist, then measure the waist curve from 9 to 3 . If the space there measures 18 inches talie out for a dart the amomit that is orer half of waist including the amount alfowed for seams, which is as follows: Hall of 25 inches waist is $12 \%$ inches and if 2 inches are allowed for seams which makes $1+1 / 2$, in such case, deduct $1 f^{\prime} z_{2}$ inches from 18 inches, which shows there is an wer-amount of $31 / 2$ inches. In this case, take out from each side of 10 to 12 and 13,13 , inches and curve frum 12 and 13 lost to the hip line to 14 . This will complete the two-picce or four gore petticont.


## WOMAN'S FIVE-GORE PETTICOAT-Size 36

## Lessen No. 435

To begin the five-gore petticoat make $\begin{aligned} & \text { ! } \\ & \text { Fondation motlines as for the lessom explaned }\end{aligned}$ hefore with the difforence that we are to allow $25_{2}$ inches for 5 seams at the waist and hip lome after meaturing the waist and hip measurements. Begin by measuring the fromt pand which is 3 inches from 12 to 13 at the waist line and (inches at the botom curve stom ? to 14 . and draw a straight line from 13 to 16 .

Now divide the inner gores. Divide the sf:ce equally from 13 to 6 at the waist line making 15 and the same way divide the bottom curve from $1 f$ to 10 making 11 and drath a strabht line from 15 to 11 making the side seam for : five-gore petticont. If fullness is wante at the waist line leate the foundation as it is without taking any dart ont. Should we want a dimi follow the rule and regulations as explaned in the last lesson.

Take special notice that this petticoat car be drafted accorling to any measurements wanted. For instance, if a large waist measurement is desired with small hip measurement, Which is, as at rute, changeable every season acending to the shape of various models mae

 amombing to $1+$ inches. 'Then continte from it to + allowing 3 inches for fullness and allow ion this five-grome petticoat from - to $5.2 \frac{2}{2}$ inches for seams and raise the same way up a line from 5 to 6 amomang to tr/2 inches. (Oherwise, act as explaned before including hip) measurement whatever it may be with the understanding that according to this diagran we
 is the same amomnt as altowed at the wast. Then draw a back line from 6 toward 9 and 10 and finish the bottom of this petticoat as usual.

If petticoats are desired for misses' sizes, all it would be necessary is to use the waist athl hij measurements as given on the table oiproportions for misses' sizes. Lengths may be followed according to the talble of proportions or according to style. It is very impurtant to know that lengthis are, as a rule, followed acoording to style, because the petticoat is aluays to be shorter with 1 or 2 inches than the dress or skirt and therefore, the length shall he guided according to the length of skirts or dresses.



## MISSES' FOUNDATION OUTLINES—Size 16.

## Lesson No. 436

In order to begin the misses foundation outlines all we need to remember is the

 Lo which the tatbe of propurtions ate prepared in the front patse of this volume 'Io begin (o) dralt we are of prepare the iomelation according to standard measurements, whid are as tollows:


To begin to draft draw square lines as usual from Ito $C$ and $A$ to $R$. Then measure from




Now prepare the width of back. Diside the space on the heast lime hetween f and l: making (i. . lllow from B to I , $1 \frac{1}{4}$ inches. Then measure the space from B to 11 on the breant line and place the same amomit on the top line fom 1 to 1 and connect a line from
 (1) $K$ with 1 inch. Draw al line from $K$ aganst 1 of and synare a line from I to mect 11 - hich will accombing to this action give the correct widh wh shomber. Weasume from ( io .11 on the watis line 2 inches and comect with a line up or I which will malie the indinc of the lack and complete the entire back fomdation.

To continue with the front measure from $1: 10 \mathrm{~N}$ and 1$)(0)$ ( $1 / 6$ uf 3 inches and draw
 comect a line from () to F . Now measure the hack shonder from $k$ to L and apply the same ammont foom ( ) to $\widetilde{\mathrm{L}}$ and connect at line from U to N wheh will complete the front armlobe line. When being as far as this measure half of bust measurement from $\Gamma$ to $V$ abimbnting to l贝t乏 inches according to 37 inches bust measurcment and allow 3 inches for

 ionndation to the edge of the front which is now realy for following up for any purpose for the variuns garments as shown for size 36 for the underiwer line. Fur additional misses' sizes sec table of proportions.



The number under each cut gives the lesson number. See lessons on the various pages in this volume.


## GRADING

## FOR

# Women's and Misses' UNDERWEAR 

STANDARD PROPORTIONAL MEASUREMENTS FOR WOMEN'S SIZFS

| Size | Bust | Waist | Hip | Back Depth | Waist Length | Sleeve Length | Collar | Width <br> of Back | Outside Length | Rise |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 34 | 37 | 24 | 42 | 6 s | 153/8 | 1734 | 131/2 | 7 | 41 | $11^{3}+$ |
| 36 | 39 | 25 | 43 | 7 | $15 \frac{1}{2}$ | 18 | 14 | 714 | +13/4 | 12 |
| 38 | +1 | 26 | 4 | 71/3 | 15.5 s | 181/4 | $1+1 / 2$ | 712 | " | , |
| 40 | 43 | 27 | 45 | 71/4 | 153/4 | 183 | 15 | 73. | " | " |
| 42 | 45 | 281/2 | 46 | $73 / 8$ | 157/8 | 183\% | 151/2 | 8 | " | " |
| 44 | 46 | 30 | 47 | $71 / 2$ | 16 | 19 | 16 | $81 / 4$ | " | " |

STANDARD PROPORTIONA1, MEASUREMENTS FOR MISSES' SIZFS

| Size | Breast | Bust | Waist | Hip | Back <br> Depth | Waist <br> Length | Sleeve <br> Length | Width <br> of Back | Collar |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | | Outside |
| :---: |
| Length |$\quad$ Rise

NOTE theso are Standard Measurements. Stylish Measurements are published yearly which are given by the Author to book owners free of charge.


PROBLEM OF GRADING FOR WOMEN'S AND MISSES' UNDERWEAR

In order to begin the grading for women': and missus maderwear, we are to understand that the model size for women's sizes is size 36 and the model si\%e for misses is size 16. To stade the bations larger or smatler sise for eath and erery bratheh, it wombloe necessary to make perfect our lirst pattern, which is size 30 for women and size 16 for misses in such matner that it will give full satisfaction to the designer in its stye and fit.

It should therefore be understood that the model pattern is to be perfect hefore i e grading is begun. To be clear with grading, it is rery important to remember that proportional measurcments of such morlel size and also of the varions sizes which we are to grade from such motel pattem. For instance, if we are to grade a set of patterns for women's sizes for which the model size pattern is 36 , we are to be fully acquainted with the measurements of a size bt which is the first size below size 36, and also of the varions larger sizes. such as sizes $34,40,42$ and 44 . In doing this correctly it would be necessary to mote the increase in back depth between cerery size.

At the same time, femember that the back depth and waist length are an increase in length, and in addition to the same we are to remember the increase of the width propretions between sizes, such as breast. lust waist and hip measurements. It is alsonee-(-isary to know that to grade the camisole the difference between hreast or hust measmemonts, which, as a rule, differs with 2 inches all around, or 1 inch hali way. for corset coners and brassieres it is necessary to note the difierence between brease, bust and waist beasurements only. When grading, chemise night-gowns and any other long garments, in addition we have to note the difference in hip measurements. When grading such garments which are below the waist, such as bloomeris, drawers and pajamas we are to grade them according to the waist and his measurements only. For grarling entirely tight-fitting Irawers we additionally add measurments of knce, calf and ankle whereby the entire mo derwear line can be full and practically gradel for which the figure on the opposite page illustates the entire set of measurements for the underwear line.



THE PROPER WAY OF TAKING RISE MEASUREMENT.
In order to make clear how to obtain the rise measurement for women's or misses' underwear watch the above diagram which gives the position how such measurement can be taken. Have a proportional live model seated on a flat surface on a chair or table in an upright position and take the measurement from the hollow of waist which is illustrated on the above diagram at number 1 and take the measurement down to the flat surface of the chair or table which is illustrated by number 2. According to this instruction we obtain 12 inches for rive measurement for a person of normal height and medium hip measurement, such as 5 feet 6 inches. At the same time, it is necessary to know that this normal rise measurement will be only practical for closefitting garments. Should we want to build garments for more comfortable wear, in such case, there should be an additional allow ance of 6 inches to these 12 inches and we shall use 18 inches for a full length rise measurement.

In order to obtain the additional measurements which may be used in connection with the rise measurement continue with the outside length by taking a straight outside length from the hollow of waist down straight to the knee which will give for the average length 26 inches for a person of normal height. Sce table of proportions on the next page.

# Proporitional Measurrements 

FOR

## Women's and Misses'

## UNDERWEAR

STANDARD PROPORTIONAL. MEASUREMENTS FOR WOMEN'S SIZES

| Size | Bust | Waist | Hip | $\begin{aligned} & \text { Back } \\ & \text { Depih } \end{aligned}$ | Waist Length | Sleeve Length | Collar | Width of Back | Outside Length | Rise |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 34 | 37 | 24 | 42 |  | 153.\% | 17. ${ }^{\text {\% }}$ | $1.31 / 2$ | 7 | 41 | $113^{4}$ |
| 36 | 3) | 25 | 4.3 | 7 | 151/2 | 18 | 14 | 71/4 | 411/4 | 12 |
| 38 | 41 | 26 | +4 | 71/8 | 1558 | 181/4 | 141/2 | 71/2 | " | " |
| 40 | 43 | 27 | 45 | $71 / 4$ | $153 / 4$ | 18,2 | 15 | 73. | , | - |
| 42 | 45 | $281 / 2$ | +6 | 73/8 | 157/8 | 183 | $151 / 2$ | 8 | , | , |
| 4 | 46 | 30 | 47 | $71 / 2$ | 16 | 19 | 16 | $81 / 4$ | , | , |

STANDARI PROPORTIONAL MEASUREMENTS FOR MISSES' SIZES

| Size | Breast | Bust | Waist | Hip | Back Depth | Waist Length | Sleeve Length | Width of Back | Collar | Outside Length | Rise |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 14 | 32 | 35 | 22 | 39 | $61 / 2$ | $14^{3}+$ | $171 / 2$ | $6{ }^{3}+$ | 121/2 | 40 | 111/4 |
| 16 | 34 | 37 | 23 | 40 | $6^{3}{ }^{4}$ | 15 | $17^{3}+$ | 7 | 13 | $401 / 4$ | 111/2 |
| 18 | 36 | 3) | 24 | 41 | 7 | 151/4 | 18 | 71/4 | $131 / 2$ | . |  |

NOTE these are Standard Measurements. Stylish Measurements are published yearly which are given by the Author to book owners free of charge.


## WOMAN'S FIRST FOUNDATION LINES.

LESSON NO. 400

I shall now commence to explain the dalting of a foumdation for a woman's size 36 an 1 to succeed in dralting, the student has to remember everv step which is matde at the beginning, as the begiming lines atcording to this system are always to be repeated for each and every garment. It shall therefore be understood that this system is based on the most simplified method because the very first foundation lines are to be used for all the continuous lessons. The fomdation lines shown in the first lesson are covering the space of the body from the neck down to the natural waist length and it therefore consists of 3 lines, which are called top line, breast line and waist line and to begin use the following standard measurements for size 86 .

| Back depth | 7 | inches |
| :--- | :---: | :--- |
| Natural wast length in back | $1.5^{1}, 2$ | inches |
| All around chest or size | 36 | inches |
| All around bust | ..... .39 | inches |
| All around waist. | 2.5 | inches |

Now begin to draft, draw a square line from $A$ to $R$ and $A$ to $C$ and remember that the line from $A$ to $R$ is the ton line and from $A$ to $C$ is the center back line to which you have to stand next in order to have the dral't in liont of you in the proper manner. Now measure from A to $\mathbf{B}, 7$ inches back depth and fiom A to $\mathrm{C}, 15^{2}$ e inches natural waist length. Draw a line across from $\mathbf{B}$ to $\mathbf{W}$ and $C$ to $X$. After these lines are crossed, measure from $A$ to $\mathrm{D}, \mathrm{B}$ to E and C to $\mathrm{F}, 1-3$ of size or 12 inches for size 36 and draw a line from D, W to $\mathbf{F}$.

To moduce the width of back, take half of B to E , which makes fi and allow from $\mathrm{G}_{\mathrm{r}}$ to $\mathrm{H}, 1^{1 / 2}$ inches and then measure the space between B to $\mathbf{H}$ and place the same from $\mathbf{A}$ to 1 and draw a line from I to H. Now begin the back neck; from A to J measure 货 of size or 3 inches for size 36 and from J to $K$ raise up 1 inch and from $K$ diew a line out against I to L.

In producing the lack shoulere, diaw a line from $K$ against ! to $L$. This space shall be 6 inches for size 36 but in order that this snace or width of shouder shall come out natually withont memorizine the wiath of shoulder for each and erery size, a square ruler shall be applied to the line from K to L to meet H and it will prove or bring the original width of shoulder for every size systematically.

Now make the ink line for the center back; make from C to $\mathrm{M}, 2$ inches and draw a line from $\mathbf{M}$ up to $A$ and remember that this space between $C$ to $\mathbf{M}$ is always 2 inches for all women's sizes. Before going any further, remember the name of each cross line made at $\mathbf{A}, \mathbf{B}$ and $\mathbf{C}$. The line from $\mathbf{A}$ to $\mathbf{R}$ is called the top line, the line from $\mathbf{B}$ to $\mathbf{W}$ is the breast line and the line from $\mathbf{C}$ to $\mathbf{X}$ is the waist line. If there are any other. crossed lines to be produced for the continuous lessons, each additional line will have the proper bame of its practical use. This completes this lesson.

Take notice that this foundation and all further lessons produced on this foundation, have all necessary seams allowed.



WOMAN'S SECONI FOUNDATION LINES

LESSON NO. 401.

To begin this lesson, we need to remember the entire foundation of the first lesson, therefore now prepare the entire first lesson and continue as follows: From $\mathbf{E}$ to $\mathbf{N}$ and from D to $\mathbf{O}$ is $1-6$ of size or 3 inches for size 36 and draw a line up from $\mathbf{N}$ to $\mathbf{O}$. When making this step, it shall be remembered that we are preparing the outline for the front part. Now measure again from $\mathbf{O}$ to $\mathbf{P}$ and from $\mathbf{P}$ to $\mathbf{Q}$ also $1-6$ of size or 3 inches for size 36. It shall be understood that we need to draw a line up from $P$ to $Q$ and as soon as the line is drawn up to Q. draw a line from $Q$ to the ink line at the back depth, which makes T and when this line is complete, measure the width of back shoulder from $K$ to $L$ and place the same from $\mathbf{Q}$ to $\mathbf{U}$, which makes the front shoulder and then draw a line from U to N , which makes the front armhole.

Now prepare the front neck, measure from $P$ to $R, 1-6$ of size or, 8 inches and allow a $1 / 2$ inch for seam. Then raise up a line of $1 / 2$ of an inch to $S$ for the high neck in front.

Now measure the bust; measure from T to V half of bust measurement. For instamce, this bust measurement amounts to 39 inches therefore, take half of this amount, $19^{1}$ z inches from $\mathbf{T}$ to V and from V to W allow 3 inches for scams and draw a square line down from $\mathbf{W}$ to $\mathbf{X}$ and $\mathbf{Y}$. When this line is complete, finish the entire edge of the front by drawing a straight line from S against W down to Z .

When being this far advanced with this foundation, it shall be understood that we are about ready with this foundation; which will be completed in the next lesson for use. The next lesson will finish this foundation into a corset cover:
I. ROSENFTLDOS STSTEM


WOMAN'S CORSET COVER-SIZE 36

Lesson No. 402

In order to complete this lesson into a corset coner draw all fomblation lines according (1) the lirst and second lessons and comtime its folloms:

To begin divide the shate equally of the entire armbele between 11 and $X$ makine $t$ and小raw a line down from + to 2 . Then take ont from cach side of 2 , $^{1}+0$ of inch and from cach side of $t$ which is at the breast lime $1 / 2$ inch to $E$ and 5 and comect 5 to 2 with a curred lime which will make the side seam of the back and commet litu2 with a cumed line wheh makes the side seam of the front. Sconding to this intruction we will whtan a full hottom for this corset coper: bat should it he necessary to make a more elose fitted matist dake out at the waist line from cach sicle of 2 to 1 and 3 , 1 inch and connect 1 to 5 and 3 to $1:$.

Now make the opening for neck by dividing at the center hack from . 10 limaking 13 which will make the decpmess of the hack according tw hati w the hack depth making it S' $^{\prime}$ inches deep. Then take the shoukder width from 1 . 612 which is 2 inches and curve irom 12 to 13. Vow measure the same 2 inches from U to 11 and livide equally the spate at the fromt colge from S to 16 making $太$. Fixtend from is to 10 , 3 inches for fulliness and eurve
 edge of the front. lirem $X$ to $\%$ allow 1 inch and comect a lince irom 3 towards $\%$ to 6 and cume up from \% w with a 12 inch, as shown on the diagram. When allow I inch for but-fon-stand to the edere of the front from 10 down to 7 . Now make all curves as shown on the diasram. . Jlow at 1 and $\mathrm{B}^{2} \mathrm{r}_{2}$ inch at the bottom wi wast. ( wre the armbole at the back from 1. (o) 5 and at the front from $L$ to $f$.

To cut out the corset cover follow the heary lines of front and bick. If a very fall bate is wanted follow the dotted line from 1.3 to $C$ and then cut ont the leavy marlis from 1.3
 $1:$ down to and from 3 ont to $\%$ and 7 and then fom 11 towards \& to 10 and from 10 down (1) 7 . If a moth lower frent opening is wated follow the dace line shown at 9 at the front edge between ${ }^{\circ}$ and $I f$ and curve in the sante manner as the orginal line at it with the exception that this is about 2 inches below the first opening enre. Note that when this pattem is ent ont aceording to these intractions the pattern has scams allowed and is ready to be cut from any kind of materiat. 'This pattem has nomal seams of . $\mathrm{B} / \mathrm{s}$ of an inch for a half seam or ${ }^{3}+$ of an inch for a full seam.

To make the ripple for the corset cover watch the diagram below the corset cover on the "pposite page, which illustrates the same. Däw a straght line from 1 to 2 measuring hali of the waist mensurement which is about 12! z inches for 25 inches waist. Divide equally between 1 and 2 making 3 and measure from 3 to + . $_{3}$ inches and from + to 5 also 3 inches. Then curve from 2 towards $t$ up to 1 and draw a line from 1 to 5 and 2 to 5 . Now spuare a line out from 1 to 6 and 2 to 7 and measme from 2 to 7.3 inches and 1 to 6 also 3 inches and make a curve from 7 towards 5 to 6 wheh will complete the riphle in a 3 -inch widh with all seams allowed.



WOMAN'S TIGHT-FITTING CORSET COVER-SIZE 36

Lesson No. 403

To make the tight-fitting corset cover make the usual fomdation lines and divide the
 armhole space. Take out from each side of $N$. side of 7 to 10 and 10.2 inches. Now shorten the waist lengh from E th ${ }^{1}$ and 10 to 4 with a $: 2$ inch all the way ont to \& and D.

Now make the dart in front by dividing the chest from $F$ to $K$ making $S$. . Illow
 Ito $\mathrm{I}, 2$ inches for a long waist effect and draw a line irom 9 against $\mathrm{I}^{\prime}$ to 1 t . Thake the space from $K$ to $S$ and place same amome from 14 to $\%$ and draw a stright line from $S$ to $\%$ and divide the space between $S$ and $\%$ making 1 which makes the height of dart. Now take out from $\%$ to 2,1 inch and from $\%$ to 3,2 inches. Measure the space from 1 to 2 and apply the same length from 1 to 15 and connect 15 to 9 which will complete the entire dart and bottom for the tight-fitting corset cover.

Now finish the mpper part of the front edge in a tight-fitting effect from 16 to $R$ and divide the space betwecn 11 to $K$ which makes 16 for a medinum neck opening in front. Divide equally the shoulder of the front and take hali irom () to \& making 17. Draw a patalle line from 17 to 18 and square a line across from 16 to 18 which will give aceording to the trace lines shown on the diagram a sfuare opening. If a enreed effect is desired make a curve from 17 to 16 as shown on the front of the diagram. "lo make the opening at the back divide the shoulders at the back equally between I, and M making 12 and square a line down from 12 to 13 . Divide equally the back depth space from $I$ to D making 11. Square a line from 11 to 1.3 which will give a square cut-ont at the back. If a round effect is wanted. curse as shown from 11 to 12.

For button-stand in front allow 1 inch at the front edge from 16 down to 14 . Otherwise, this tight-litting corset cover is complete with all necessary scams allowed.



WOMAN'S BRASSIERE-SIZE 36

Lesson No. 404

In order to make the brassiere prepare the usual fombation lines and divide the side scams as explatined for the tight-litting corset coner. lrepare the dart in front in the same mamer and then ate as follows: Is this gament is to be stricty tight-litting divide the
 equally the hack shoulder from 1 . to $\$ 1$ making 10 and commed 10 to 19 . (unnect with a trifle curved line 9 lost to the breast line which will. in this maner. produce the chosefitting back for the brassiere.

To make the front part divide the fromt shoulder from () to ( making 11 and comect 11 (0) Which is at the height of dart, with at staght line. In order to get the proper chose-fitting bust effect begin to curve on the straight line from abont the breast line lost to the waist line to 3 . Therefore it shonld be materstood that the straight line contimes for the outside part of the front to 2 . Fo better muderstand this it is to begin at 11 passing 15 down to 2. It should be maderstood that this lesson is followed acording to the lesson hefore this.

The opening or cut-ont around the mecle is built on the same principle as for the lesson hefore this. Divide the back depth at the center hack from 1 to 13 making 12 : draw a line from 12 across to $1.3^{\circ}$ which connects with the Fernch seam from 13 up to 10 . If a romad effect is wanted follow the doted line from 10 to 12 . To make the front opening on cut-ont divide the space at the front edge from il to $k$ making it and drath a line across to 15 . For a square opening follow from 1.5 to 11 . Should a round opening be wanter follow the dotied line from 11 to $1 t$.

To allow for button-stand in front allow 1 inch all the way through the edge of the front from $1+$ to $X \mathbb{X}$, shown by the dotted lines. To cut out this pattern remember that this pattern is cut out on the same principle as the corset cover or any other gament with the exception that there is positively no need for a seam at the eenter back. Therefore, deduct $3 / 4$ of an inch for a seam from 12 to D. Note that the small dart which is between 9 and 19 lost to the breast line is to be taken out. When the pattern is cut out we are to allow seams all the way through from 9 and 19 up to 10 and $3 / \mathrm{k}$ of an inch is the proper amount to allow at each side. Also note that the front dart between 2 and 3 lost all the way through up to the breast line is to be thrown ont and $3 / 8$ of an inch for seams are to be allowed from 11 all the way down to 2 and 3 at both parts of the pattern which are the imer and the outside parts of the front.


## THE PRACTICAL DESIGNER

WOMAN'S CAMISOLE-SIZE 36

Lesson No. 405

To produce the camisole systematically and practically which may sate a great deal of material and labor make use of the lirst 2 foundations up to the bust which is shown on the opposite diagram from 2 to 22. When the line of the front edge is drawn from 19 against 22 down to 25 measure the space at the beotom of the front from 24 to 25 and extend the same amount at the breast line from 22 to 26 and connect a line from 26 to 25. Nute that the lengthening of waist at the bottom between 23 and $2+$ is 1 inch.

To finish the botom entirely simply connect a straight line from the bottom of the center back from 3 against $2 t$ out to 25 and curve up, is shown on the diagram, about $1 / 4$ of an inch at 25 to give a trifle roundness at the bottom of the front when the garment is comected. Now note the heary line at the breast line inchuding the bottom, center back and center front which clearly shows that in order to make the camisole in one picee, all we need is the space between breast and waist line including all the fullness at the center back and the special allowance which is made at the front between 22 and 26 lost to 25 .

To complete this one-picce camisole foundation allow 1 inch for button-stand from 26 down to 25 in the same manner as shown for the brassiere. Should it be necessary to attach upper yoke parts which, as a rule, is a style, follow the suggestion given according to the trace line for a Yoke effect. Diviche each shotider at the front and back, for instance, the back shoulder divide between 1 i and 12 making 27 and follow aecording to the dotted line from 27 to 2 and 27 to $S$. The front shoulder divide betreeen 17 and 30 making 28 and draw a dotted line from 28 te $1+$ and 2 si to 16 . Should we want a shoulder strip, which may be made of ribbon or lace, follow the shoulder and armbole lines, wheh is about $1 \mathrm{t} / 2$ inches in width which is shown at the back from 12 to 9 which is followed parallel according to the trace line down to the breast line. For the front also follow the front armhole line aceording to the same width which is from 30 to 31 parallel down to the breast line as illustrated by the dotted lines.

It should therefore be understood that the proper adding is a matter of taste and style and the lower part is the original foundation of the camisole as described before with all the necessary seams allowed.



WOMAN'S CHEMISE-SIZE 36

Lesson No. 406

In order to begin the chemise make nse of the upper foundatom lines as explaned in the first two lessons ats far as the bust line which is on the opposite diaseram finished (1) the front edere at " and square a stratight line down frem ") towards 10.11 and 12 and continue as follows: Neasure from 3 to $t$. 6 inches for hip line and cross a line form $t$ to 11. Now measure 36 inches from 1 to 5 which is the mormal length for a chemise and draw a line acrose from 5 to 12.

Now make the center back; measure in at the center back and waist line from 3 to $35,3^{3}$ of an meh and draw a stratight line 1 , from 35 to 1 and from 35 aganst + down to 7 . which will complete the proper shape of a chemise.

Now prepare the armhole. Divide equally the space of the ambole between 17 and 22 makins 27 and draw a straight line down fom 27 towards 22 to 20 . Fake ont at the $1:$ aist line forme each side of 2 N to 30 and $311^{1} 2$ inch each and extend at each side of 29 at the hip line to it and 32 also a $1 / 2$ inch. Then connect lines from 27 to 30 and from 30 agamst if down to 3.3 which will complete the side sam of the hack. Waw a line from 27 to 31 down against 32 to 3 twill complete the side seam of the fromt. Now limish the
 the front ambole form 2.5 to 3 .

Now make the opening cut-out for mormal use as follows: Raise up at the center lack It the breast line from 2 to $\mathcal{X}$, 1 inch, and measure the shoulder strip at the hack from 21 to 39.2 inches, and curve as shown on the diagram form .30 to $\mathbb{N}$. Measure the front shoukler strip from 25 to 10 and curve from to towards 26 to 9 . This will complete the chemise with all necessary seams allowed, for size 36, or which may be followed inp to any other size according to the table of proportions given in the front pages.


WOMAN'S ENVELOPE CHEMISE—SIZE 36

Lesson No. 407

In order to begin the envelope chemise draw the huper foundation lines ats explained in the first two lessons as far as the bust line which is on the opposite diagram finished to the front edge at 9 and square a straight line down from 9 towards 10,11 and 12 and continue as follows: Measure from 3 to 4,6 inches for hip line and cross a line from $t$ (o) 11 . Now measure 36 inches from 1 to 5 which is the mormal length for a chemise and drall a line across from 5 to 12 . Then lengthen the center hack line from 5 to 6 with 14 of .36 inches amounting to 9 inches and square a short line of abont inches out from 6 towards 7. Now make the center back; measure in at the center batek and waist line from 3 to $35, \xi_{t}$ of an inch and draw a straight line mp from 3.5 to 1 and from 35 against + down to 7 . which will complete the proper shape of an envelope chemise.

Now prepare the armhole. Divide erpually the space of the ambole between 17 and 22 making 27 and draw a straight line down from 27 towards 2 .s to 29 . Take out at the waist line from each side of 2 X to 30 and 31 , $1 / 2$ inch each and extend at each side of 29 at the hip line to $1+$ and 32 also a $1 / 2$ inch. Then connect lines from 27 to 30 and from 30 asamet if down to 33 which will complete the side seam of the hack. Draw a line from 27 to 31 down against 32 to $3 t$ which will complete the side seam of the front. Shorten each side seam at 33 and $3+$ about 3 of an inch each and connect 3 . with a similar curve, as shown on the diagram, to 6 which will complete the bottom of the back part.

To finish the front measure from 12 to 36 the same space as for the bottom of the 1 ack from 6 to 7 which is 3 inches and then raise up from 36 to 37.1 inch, and comect 37 to 3 , which will complete the bottom part of this envetope chemise. Now finish the armbole lower with 1 inch from 27 to $3 x^{3}$ and curve the back armbole from 21 to . $\mathrm{S}_{\mathrm{N}}$ and the front armbole from 25 to $3 x^{2}$.

Now make the opening cut-out for normal use as follows: Raise iip, at the center lack at the breast line from 2 to $\mathrm{X}, 1$, inch. and measure the shoulder strip at the back from 21 to 39, 2 inches, and curve as shown on the diagram from 39 to $X$. Measure the front shoulder strip from 25 to 40 and curic from to towards 26 to 9 . This will complete the envelope chemise with all necessary seams allowed, for size 36 . or which may be followed up to any other size according to the table of proportions given in the front pages.



WOMAN'S ONE-PIECE NIGITT GOWN-SIZE 36

Lesson No. 408

To begin the one-piece night-gown draw the fomdation lines according to the first and second lessons and measure from 3 to 26.6 inches for hip line, and draw a line across from 26 to 23. Then meature the full length of the eament which is abont 60 inches inelading at small hem and measure, therefore from 1 to 27 . 00 inches for the full length and dran a line from 27 to 2 S . Now comtinue ats follows:

To continue divide equally the ambole space as shown on the opposite diagram between or and $1+$ making 30 . Extend at the hip line from 31 to $2^{\prime \prime}$. 1 inch and draw a line irom 30 against 20 down to the hottom to 32 . Kaise up from 32 to 35.1 inch and curve from 35 lost to 27 which will fimish the side seam and bottom of the hack.

Now make the front side seam. Neasture $1 / 3$ of hip on the hip line from 23 to 3.3 amounting to $1+3 / 8$ inches aceording to 43 inches hip and then connect a line from 30 agatist 3.3 down to . 3 . Raise mo at $3 t$ also 1 inch the same as the hack and add at the bottom of the front from 28 to 36 , $a_{1}$ of an inch and comect with a curved line from it to 36 whith will finish the side seam and the botom of the front.

Finish the edge of the front by drawing a straight line down from $1^{9}$ :igainst 21 down to 36. Curve the armhole as usual by curving the lack armhole from 12 to 30 and the front armbole from 25 aganst 5 to 30 . Is no seam is wanted at the center back deduct $3 / 8$ of an inch from 1 down to 27 . This will complete the onepiece might-gown. See mext lesson for the night-gown with a yoke.



## WOMAN'S NIGHT-GOWN WITH YOKE-SIZE 36

## Lesson No. 409

In order to make the might-gown with a yoke make the complete draft of the whe-piece night-gown and act as follows: Draw a line across $1^{1} 2$ inches above the breat line as shown at 2 at the center back. Then draw a dine acouss from the ambole out from 2 to 37 and allow 2 inches paralle all the way down to 3 which will increase the fulbese for the back.

Now cut the line across the same way 1 inch alose the breast line at the front and extend from 21 to 39 . 3 inches for fullues at the front. Now extend 1 inch for hatom-stand at the front part which is from 18 to +1 chown to +2 . Remember we are to allow special seams of $3 / 8$ of an inch at the split of the goke between the upper and lower prate of the frent and back. Note that the allowance which is made for falloness at the front and back is to be gathered in and then followed together with the mper or yoke part.

Should a low neck be wanted at the neck for this or the onc-piece nisht-gown follow the enres which are shown according to the doted lines at the back part which is shown at 9 towards the conter back and at the front from 1.5 towards 42 , which may be changed to any opening wanted, from time to time.


## WOMAN'S PRINCESS SLIP-SIZE 36

Lesson No. 410

To begin the princess slip dran the usual foundation lines. Measure the hip line from C to D, 6 inches and cruss a line from D) to B . Then measure for the botom line from the waist line which is from C to $15,2 s^{\prime}$ inches which will make a short lenget of a skirt to Which an additional hottom ripple of 12 inche : may be connecterl. If a full length skirt effect is wanted it slath be to inches made between ( and 15. Cross a line from 15 to 13 for the bottom line. Neasure from ( to 12, 2 inches and from 1) to 11, 15 inches and comect a line from 12 up to 1 and from 12 acrainst 11 down to 15 . Whow ${ }^{3} 4$ of an inch to the shoulder from il to N prepating for the seam which eroses the shoulder hatf way from L to N making 26. Then measure from 12 to 16,1 , of size amomating to, 3 inches for size 36 and from 11 to 18 , + inches and draw a line from 16 to 26 and 16 towards is down to -1. Take out from 16 to 19 , 3 of an inch and from $1 \mathrm{~S}^{\circ}$ to 17 ald $\mathrm{i}_{\mathrm{f}}$ of an inch. Comect a straight line from 19 towards 17 down to 20 and from 19 make a curved line up to 26 to meet the straight line on the breast line.

Now take out at the side seam from $C_{1}$ to 9 and $1:$ to 5 , 14 of incle and on the waist line from is to 10 , 12 inch and connect from 9 to 10 and from 10 against E down (6) 25 which will complete the side seam of the back part.

To begin the front part take out $1 / 2$ inch from + to 3 on othe waist line and comect with a line from 3 . 11 p in ( $i$ and 3 against 5 down to 22 . Then divide the chest between I: and Y making $X$ on the breast line. Neasure the space between I and A which is about f!' 2 inches for size 36 and measure the same amome with $1 / 4$ of an inch added which amounts to dif $^{2}$ inches from 7 to 30 on the waist line and draw a straght line from $X$ towards 30 down to 29 which will make the dart of the front. Note that the space be-
 down to 14 . From 13 to 14 is 1 inch.

Now complete the dart. Divide the space between X and 30 for the height of bust making 25. Divide the front shoulder between L and 11 making 27. Then allow $3 / 8$ of an inch to each side of 36 and 37 . Comect a line from 36 to 28 and draw a straight line from 37 towards 38 with the line parallel which is drawn from 36 to $2 s^{s}$ and fill in the brake with a curve from 36 towards 2.3 to 30 . Now curse the inner part of the front which has the most part of the bust from 37 towards 35 down to 2 s and 31 . Draw a straight line from 30 to 32 which will complete the dart at the front which will bring the proper bust effect.

To make the proper opening for the prinecess slip raise up from $Y$ to $2.3,2$ inches and square a line from 23 to 24 amomiting to 4 inches and draw a straight line up towards 37 as shown ly the doted line. If a romed opening is wanted follow the datted curved line from 27 to 23 . The same space may be used at the back loy measuring from L , to AB as the space measures from $1 \mathbb{C}$ to 37 . Then curve as shown lye dotted lines from AB to AC . AC is half the space between $A$ and $B$ at the center back. Note that this gament is cut with all necessary seams allowed. and is cut with a center scam in back which is proper for this kind of fitting.



WOMAN'S BLOOMERS OR KNICKERBOCKERS, FRONT PART—SIZE 36

## Lesson No. 411

In order to begin the front part of the bhemmers wee measurements specially designed for this purpose which are partly explaned til the front patese and meaturements for this are as fulluws:

| Waist | 25 inches | Kise . . . . . . . . . . . . . . . . . 12 inches |
| :---: | :---: | :---: |
| 1Iip | +3 inches | ()utside l.ength. . . . . . . . . . 26 inches |

To begin to draft wateh the diagram on the opposite page and drat lines from 1 te $K$ and . I to C. Measure from . I to $\mathrm{B}, 12$ inches for rise measurement and from . 1 to $($ 26 inches ontside length and draw a line aer uss from B to $I$ and C to T . ( all the line from A to $R$ waist line; from $B$ to 1 hipline and from $C$ to ${ }^{1}$ knee line. Then continue drafting according to the hip measurement and measure from $B$ to 11 hali of hip meaturement
 is inches and draw a line up from if to $K$. Weasure from $R$ to () $1 / \downarrow$ of waist measuremont amomenting to $6 \frac{1}{4}$ inches, according to 25 inches waist. From () 10 l' allow 2 inches for seams and fullness. From I' 109 raise up a $1 / 2$ inch and irom $R$ to $X$ lower with a '2
 make a side hip curve from? to U down to the knee line to $C$, as shown on the diagran.

Finish the front curve part by measuring the space from If to I and raisc the same amount fom 11. to I. Then commed a line from I to I and divide equally, making II and from $1 /$ to $N$ mark $1 / 2$ inch and curve from $J$. N to $I$. In order to finish properly the inside scam take $1 / 2$ inch from 1 to 1 and draw a strabigt line down from ${ }^{\prime}$ to 1 and curve as shown on the diagram from I to $\Gamma$. which will complete the entire front part of the boumers.. See next lesson for the back part.

BACK PART-SIZE 36
Lesson No 412
To begin the back part of the bloomers hate the complete draft or pattern of the front part, as shown on the cliagram on the opposite pare, and then contimue as follows:

To begin to draft draw the waist line out from $K$ and 1 , to $A$ and 1 'and measure from L to $\mathrm{A} \frac{1}{4}$ of waist measurement amounting to $6 \frac{1}{4}$ inches, according to 25 inches waist and from $A$ to P allow 3 inches for fulhess or clants. Then altow from B to U also 3 inches for fullness and at the bottom from I to 2 allow $11 / 2$ inches.

Now finish the back crutch part. Raise the back from I, to K with 3 inches and conneet a straight line from $K$ to $I$, where the curve of the front crutch begins and curve from $\mathfrak{k}$ (t) J and 1 ont (0. M . From I to 11 is $1-12$ of hip measurement and from If to M is 1 inch allowed for seams which aliogether amonnts to from 1 and $\mathrm{M}, 27$ inches allowed for the under part. Then allow from 3 to $4, I 1 / 2$ inches for seams and fullness. This will complete the back part of the bloomers with gathers around the waist and kinee.

If a fitted waist is wanted make a dart on top of the back part as shown as follows: Divide from $\Gamma$ to $k$, making () and draw a line down from () to $\%$, which is $4 \frac{1}{2}$ inches. Trake ont from each side of $W$ to $V$ and $I V$, I inch and make curves from $V$ ' to $T$ and ${ }^{\prime}$ ' to T. This will complete the bloomers with all seams allowed.

If buttoning is wanted for bloomers at the front part make the opening for such buttoning at the front irom $R$ to $J$. If buttoning is wated at the side make the opening as described at the back side seam from $P$ to $U$. If back-buttoning is wanted make the c.pening at the back from $K$ to I. Aecording to this method convenient opening for buttoning will be obtained.


## WOMAN'S DRAWERS, FRONT PART-SIZE 36

Lesson No. 413

In order to begin the front part for womans: dratwers use measurements specially designed for this purpose, which are as follows:
Maist
.25 inches
Ilip ........................ 3 inches (butside Length.............. 26 inches
Rise
11 ip ......................... +3 inches )utside Lengtl............... 26 inches

To begin to draft wateh diagram on the opposite page. Draw a line from 1 to 4 and 1 to 3. Neasure from 1 to 2.15 inches rise. According to medinm height the rise measurement is 12 inches. Fon drawers add 6 inches additional for a comfurtalble rise, makingr it is inches. Then measure from 1 to 3.26 inches ontside length which is taken at the side of the hip from the waist to the knee. Now draw a line acruss from 2 to 8 and 3 to 15. Measure from 2 to $\overline{7}$. half of 43 inches hip amonting to $10{ }^{i}+$ inches and from 7 to 8 measure 1-6 of hip measurement amounting to $35 / 8$ inches.

To continue square a line up from 7 to + and measure from + to 10 , ${ }^{1}$ oi 25 inches hip measurment amomting to 0,4 inches and from 10 to 11 allow 2 inches. From 11 to 12 raise up $\boldsymbol{S}_{4}$ of an inch and connect a line from 12 to 4 . Now measure the space from 7 tu os and place the same amount from 7 to 9 and conncet a line from 9 to 8 . Curve from " to 8 with a $1 / 2$-inch deepness, as shown on the diagram, which completes the crutech of the front part.

Now finish the inside seam of the front. Draw a straight line from + against 8 and draw a line down from is to 15 to the botom line of the front, which will in this way complete the inside seam with all the fullness needed at the bottom. Now finish the outside seam and hip of the front. Neasure from 2 to 13 at the hije line $21 / 2$ incles and make a curve with a curved ruler from the waist point from 12 against 1.3 and continue straight down to the bottom to 14 , which will complete the front part. See the next lesson for the back part.

## WOMAN'S DRAWERS, BACK PART-SIZE 36 Lesson No. 414

To begin the back part for drawers make the draft of the complete front part as shown on the enpersite page and then contmue with the back as follows: Divide the space of the front from 2 to $x$ on the hip line, making 16 and draw a straight line up from 16 towards 19 (1) (1) 18. Aleasure from 19 th 18,3 mehes and draw a line up to 19 against 20 to 21. Neasure from 19 to 20 , $1 / 4$ of wast measurement amounting to $61 / 4$ inches according to 2.5 inches waist. From 20 to 21 add 3 inches for seams and fulluess and comnect a line from 21 tw 15 . Then allow from 13 to 22 and $1+$ to 23,3 inches and comect with a curved line from 21 to 22 and 23. which will finish the outside seam of the back part.

Now connect a line for the back curve part from is to 9 and continue the curse aconding to the front crutch from 9 towards 8 out to 5 . From 8 to 5 is $1-12$ of hip measwement and 1 inch allowed for scams amonnting altogether to 23.4 inches. Draw a line irom + against 5 down to 6 , which will complete the inside seam of the back part which is combectable to the inside seam of the front to 8 and 15 , and which will complete the entire draft of frunt and back for woman's drawers.

In order to cut out the front and back parts of this draft trace off each one accurdinge th the heary lines as follows: To begin to cut or trace the front begin from 12 to 13 and 1 across to 15 up to 8 and from 8 to 9 up to 4 and comect + to 12 . This will cut out the front. To cut out the hack part begin from 21 to 22 and 23 and from 23 across to 6 up to 5 fiom 5 wwards 8 and 9 up to 18 and from 18 connect to 21 . In this way the front and back will be entirely cut out, including the necessary seams.

If buttoning is wanted at the side take half of the rise length between 20 and 22 at the lack part and between 12 and 13 at the front part. which measures full 18 inches and half of this amome is to be left open from the waist down, which will amount to 9 inches for buttoming if side buttoning is desired. If front or back buttoning is desired make the opening from the waist line 12 inches down, which will be sufficient and convenient spare for buttoning.


This is the front and back of the two-piect crawers. See separate lesscn for the one.ficce circular drawers.

## THE PRACTICAL DEGIGNER

WOMAN'S PANTALOON PAJAMAS, FRONT PART-Size 36

Lesson No. 415

In order to begin the patatalon pajam:s follon the ontlines according the principle of the bhomers and the measurements for the same are ats follows:

| 11 itist | 25 inchc: | ()itside l.ensth | . 11 incles |
| :---: | :---: | :---: | :---: |
| IIip, | +3 inches | loutum | Is inclics |

To begin to draft draw lincs from I to $K$ and $I$ to $D$. Neasure from I to B 12 inches rise and from : 1 to $\mathrm{D}+1$ inches outside length. Worli the hip the same way on the hip lince, t, 2 of hip measurement from $B$ to $1 \mid$ and irom $\mid 1$ to 1 meatsure $1 / 6$ of hip measurement. Kaise $\quad$ ip a straight line from $1 /$ to $K$ and measure $1 / 6$ oi hip from 11 to I and eross a line from I to $X$. Neasure from $K$ to ( $), 1 / i$ of wast measurement amomiing to $6 \frac{1}{4}$ inches according to 25 inches waist. From () to 1 ' allow 2 inches for seams. Raise up from J' to O a $1 / 2$ inch and lower from $k$ to $R$ with $1 / 2$ inch and connect a line from $k$ to ? Then curve from? to $\mathbb{X}$ down to $B$ for hip curve.

Now finish the lower part of the front. Divide the space equally between if and 1 making S. Then measure the space from $B$ to $S$ and place the same at the bottom line
 to 3 at the bottom line $1 / 4$ of hottom measurement which is 18 inches, amoming to the inches. Jrom 1 to (i at the hip line measure 1 inch and connect (ito 3 , which makes the inside seam and comnect with a curved line from I towards 1 . which is about at the linee line. This will complete the pront part with all seams allowed,

## BACK PART

Lesson No. 416

To continue with the back part note diagram of the back. First complete the front part and then enntinue the back as follows: Raise the center line wip from $L$ to $K$ and metsure there 3 incles. Measure from $L$ to $A$. $1 / 4$ of waist measurement amombing to 6 y inches and from . I to $\Gamma$ allow 3 inches for seams and gathers for the hack part. Then comoct a line from $P^{\prime}$ to $K$. Comnect a line from $K$ to $J$ for the back crutch part and contime with a curve from I towards I to 1 I and 11 . The space from I to 11 is $1 / 12$ of hip measurement and from it to $M$ is 1 inch allowed for seams. Note that 11 and $M$ is $1 / 2$ inch lower from the hip line. Then add from 1 to $Y$ and 3 to $\mathrm{F} 1 \mathrm{I} / 2$ inches and the same amomint oi $1 / 2$ inclies should be allowed from 4 to F and 2 to C . From B to U at the hip line allow 3 inches. Then curve, as shown on the diacram. the inside seam of the back part from $X$ towards $Y$ to $F$ and the outside seam of the hack part connect from I' to L'towards $C$ to $\%$. Them eonnect with a straight line at the bottom F to F which will complete the back part with fullness around the waist.

If litted pantaloon pajamas are wanted aromod the wast take ont the dart by dividing equally from $I^{\prime}$ to $K$ making of at the back waist line Draw a line down from $O$
 on the diagram. This will complete the back part of the pantalon pajamas with all necessary: seams allowed.



BACK PART-


FRONT PART


WOMAN'S ONE-PIECE OR CIRCULAR DRAWERS-SIZE 36

## Lesson No. 417

Io make the one-piece or circular drawers cut out the front and back parts of the drawers explained before and then mark the front out, as shown on the opposite page. which is as follows:

To begin, copy the front first from $\Lambda, B, C, D$ to $E$ and place the upper part of the back part to the upper part of the front part, which makes the ennection of the waist between the front and back parts at $D$ and $F$, and at the bottom between the front and back, which is between E and $G$, allow 12 inches space.

Then continue by copying the balance of the back part from $F$ and $H$ down towards $J$ and I and from I to $G$. Then fill in the space at the waist brake by making an even circle curve from $A$ towards $K$ and $H$. The space of filling in from $F$ and $D$ to $K$ shall be 2 inches and then make an equal round enrve for the bottom from C towards L out to I. Note then that the front inside scam, which is from B to C , is to be connected with the back inside scam, which is from J to I. According to this instruction we will have the complete one-piece or circular drawers with all the necessary seams allowed.


WOMAN'S ENVELOPE DRAWERS—Size ?

Lesson No. 418

In order to begin the envelope drawers note that this garment is cut on the principle of a circular skirt which is followed according to the wast and hip measurements.

To begin to draft draw a line from I (o) ( measuring hali of waist meaturement amonnting to $12 \frac{1}{2}$ inches according to 25 inches waint. Then squate a line up from $C$ to $D$ and measure 6 inches for the back raise. Neasure from 1) wwards ( $122_{2}$ inches, which is hali of waist measurement and draw a linc from () to (i and square a straight line down from (i to li, which makes the iront length amonnting of 26 inche for the curelope dratiers. Take $I_{2}$ between ( $;$ and 1 ) making $H$ and from $1 \|$ in ! mark $11 / 2$ inches and curve from (i towards I ig) to 1 ). Then make paralled 6 inches letween (; io I, J to Fe, and 1 ) to $\mathbb{F}^{\circ}$ and curce from 1 towards E to F . Neasure from 1 to fi hali of hip measurement ammonting of $21^{1}$ ? inches and (hatw a line fomm 1 ) worads $\mathrm{F}_{\mathrm{F}}$ and down to L and S mial:ing the back line. Now measure from D (o) L, 20 inches liack lengeth. From $L$ to $S$ me:s
 to 1 ', as shown on the diagram. Wake the side length alen 26 inches from $f$ to " 1 and curce the bottom for the colvelope rlawers from $13, I$, I' to 1. . The space from 1 , w where the curve is lost is the same amount as from L to $\$$.

To make the side opening for the envelope draners divide on the waist line form if to I making I and from 1 to $1:$ on the hip line making 2 and split from 1 to 2 which will be the proper place for opening for the entelope drawers.


# WOMAN'S ONE-PIECE PAJAMAS 

Kimono Style, Front Part-Size 36

Lesson No. 419

To begin the from part of the one-piece pajamas continue partly with the outlines of the first lesion in the following manner. Draw a straight linc from 1 to 6 and 1 to 5 . Heasure from 1 to 2,7 inche's hack depth and 2 to $3,151 / 2$ inches waist length. Then measure from 3 to + . 18 inches rise and from 3 to $5,+1$ inches ontside length and dratw a line across from 1 to 5 which is the top line. 2 to 7 breast line, 3 to 8 waist line and + to 9 crutch and 5 to 10 bottom line.

Now make the upper part of the pajamas by measuring from 2 to 11 and 1 to $12^{\circ}$-6 of 36 inches amounting to 3 inches and the same amount should be measured from 12 (t) 13 and irom 13 up to 14 . Then draw a line for the front shoulder from 14 against 1 out to 23. In order to finish this line measure the hack shoulder and sleceve from is to 20 and apply the same amount from 14 to 23 . Then square a line from 23 down to $2 t$ and lower the armhole from 2 to 22 with 3 inches and measure the space from 1 to 22 and apply the same amount from 2.3 to $2 t$ which amounts to 10 inches and connect 22 to $2+$ which will complete the kimono sleeve for the front part.

To finish the front part measure from 13 to 15 , $1-6$ of size amounting to 3 inches and allow $1 / 2$ inch for a scam. Then measure on the breast line from 11 to $16,1 / 4$ of size amounting to 9 inches for size 36 and curve from 15 against 16 down to 17 and 18 . Neasure from t to 19 on the crutch line half of 43 inches hip amomating to $103 / 4$ inches and draw a straight line up from 19 towards 18 to $17,8,7$ to 6.17 is half the space between $\&$ and 18 .

Now finish the lower part of the pajamas. Measure from 17 tu 9, 1-6 of hip measurement amounting to $35 / 8$ inches and make the same amount from 19 up to 18 . Connect a line from 18 to 9 and take half between 18 and 9 making 21 and curve a $1 / 2$ inch below 21 to 9 from 18 , as shown on the diagram. Now take half between 9 and 19 making 20 and square a line down from 20 to 10 and make a curve from 9 to 10 , as shown on the diagram. If a straight side scam is wanted use the straight line from + to 5 . If a shapy effect is wanted take $1 / 2$ inch off at 5 and follow the heary line from to 5 .

For button-stand allow 1 inch which is to begin at the front neck at 15 and continue the same down to 17 which is about the proper length of opening for pajamas. At the same time, make the curve of the front neck as shown on the diagram. If more opening is wanted than the natural neck curve follow the trace line below the neck as shown on the front and back diagrams which is 3 inches cut out from, the ordinary neck curve. This may be changed for more or less opening which, as a rule, is followed according to the style, from time to time. This completes the pajamas with all seams allowed.


# WOMAN'S ONE-PIECE PAJAMAS 

Kimono Style, Back Part-Size 36

Lesson No. 420

To begin the one-piece pajamas use measuremente acomeling to the propmotions of size
 and 1 to 5 . Neasure fom 1 to 2, 7 inches back depth as for the first lessonf. from 1 to 3 meanare $15 r_{2}$ inches waist lengeth and from 3 te + measture is inclies rise lengeth. Then
 crutch. Now meature from 1 to 5 and $+10 \times 1-3$ of 36 inches amombing to 12 inches and commet a line from 5 towards is down to 12 and mea-tre +1 inches outside lengeth fro. 7 to 12 ame from 12 draw a line across to 11 which is the buttom line.

Now make the width of back. Take half between 2 and 6 on the breast line making 14. From It to 15 allow $1 \frac{1}{4}$ inches. Neasure the space between 2 and 15 and matice the satme space fomm! to 16 and commect a lane from 15 to 16.

Now make the back neck. Ncasture from 1 to $17, \therefore$ inches and raise $u p$ from 17 to 18. 1 inch and curve for a cluse neck from 1 to $1 \times$ Then draw wht a line for the shouleley and Kimono secte from 18 atgainst 16 ont towards 19 and 20 . Num square a line down from 20 to 21 . The space from 19 to 20 is 12 inches for a shom kimono sleeve. Lower the space ior a lecp armbole from 6 to 22, 3 inches for a kimono armhole. From 2 to 23 make 1 inch in. Neasure the space from the line below 5 tw 22 which amotnts to 9 inches and measure the same amount of 9 inclese imm 20 to 21 and connect $2 s$ to 23 and make a curse from 23 towardsis which is at the side line lost to the crutch line. Should we want a nomal shoulder with armhole square a line form 19 down to 15 whele will give the normal wielth of shoulder from 18 to 19 . Should a low cut-unt neck be desired talie lati of the shoulder widtl between is and 19 and also half the space at the center back between 1 and 2 and make a curve, as shown by the dotied line from the tops shomber to the conter back:

To complete the lower part of the paja mat measure at the erutch line from + to 10 , 1.6 of hip amontinges to $358^{8}$ inches and connect a straight line 1 pe from 10 to 1 and square a line down from 10 to 11 . Then add another $1-6$ of hip measurement from 10 to 9 and curve from? to 11 and make the crutcli curve from? as shown on the diagram, up towards the center back line which goce to 1. For more fullness at the side seam cut out draft according to the straisht line from \& to 12 and for a narrower botom take off from 12 to
 pajamas, with all seams allowed.

For back buttoning with gathering for these pajamas sec loack part of combination chemisc.



WOMAN'S COMBINATION CHEMISE, Back Part-Size 36
Lesson No. 121
In order to begin the combination chemine use the similat fonmation outlines of the



 and 5 and $t$ and $E$ is $1-3$ of size amomating to 12 inches the same as explaned before.

To comtinuc the combination effect for this back part measure from + to 10 and 10 to

 down imm 's w B and inctease for more fullness at the bottom from $\mathrm{l}^{\prime}$ to ( with 1 inch and


 inchers deep from of to 22 and, therefore, curve the ambole, as shown wit the diagram, from 1) down te 2.3. 'Then finish the eenter back for more fulneso ioy frawing a straght line from 1 down to 10 which is at the erutch, and curce ferom? up towards 20 for obtaming :' wrlinary lack part for the combination chemi-e.

If back buttoning with fulluess is elesired mote the following changes. Take half between 2 and + which is lecteren breast and crutch lines making 11 . Fomm 11 draty a line out wo 12 and 13 and measure from 20 to 12,3 inches for sathering. In order to cut in the upening diviste the space equally between 12 and 1.3 making 21 which is the place to cut in for the beming of lack hattoning, as shown on the dingram. 'Then connect a line from 12 to 10 and curve fom 12 down towards 9 as shown on the diasram. Which will complete the bati forl ack hutuning with gathering around the back part of the hijp.

For cutting out the back part for this par. ictular tyle lesin to cht the back from the (ap) from 1 to 20 , from 20 to 21 down to 1 . Them continuse cattins ont lrom 20 to 12 wnards? down to C and from C cross to D up towards is to 1.3 and 2.3. As at ruke this wament is tu te cut with a low neck opening. Therefore. wake half between ! and 2 makiner If and take ${ }^{\prime}$ inches from is to F and ent from $\mathrm{H}_{\mathrm{H}}$ to G and from (; to 19 which combletes the back part for this gament with all seams allowed.

## WOMAN'S COMBINATION CHEMISE, Front Part-Size 36

## Lesson No. 422

To begin the front part for the combination chemise dhaw ontines on the same prin(iple as for the lack or exactly the same as for the fromt pajamas. Fiom 1 to 2 is 7 inches lack depth; 1 to $3,15^{1} \frac{2}{2}$ inches waist lemgth and 3 to $t$ is $1 \mathrm{~s}^{\text {inches }}$ rise. Then draw lines from 1 io 6,2 to 7,3 io 8 and 4 to ${ }^{\prime}$ and continne the font part the sane way as for the une-piece pajamas with the execption of making the armbole aceording to the decpuces of $\therefore$ inches between 2 and 22 and make a curve from 1 to 22 for the front armbole. Then draw a line down from 9 to 91 and measure there 8 inches and draw a straight line across fiom ') to 21 and extend from + to 20.1 inch. Now draw a straght line from 22 agrainst 3 down towards 20 and 21.

Now allow for button-stand $\}$ inch from 15 down towards 16 to 17 in the same mamer an for the meferiece pajamas. if full length lationing is wanted te the crutch continue the huttuming to 12. Then continue the curve of the crutch from 18 to 9 as usual.

As a low neck is wanted for the combination chemise measure from it to C, 3 inches a- d divide from 15 th 16 making 1$)$ and curve from ( to $D$ for a low neck, as shown on the diagram. "therwise, this front part of the combination chemise is completed with all iccessary seams allowed. For cutting ont follow the heary lines of this diagram.



WOMAN'S STEP-IN CHEMISE—Sizc 36

Lesson No. 423

In order to begin the step-in chemise, prepare the complete formation withe ord-


To continue for the step-in chemise, meantime from the breast line down, which is from 2 tu 7.1 inches, and draw a line from 7 to 77 , when is the proper length for the moper

 center hack line with 1 inch and at the front from 75 to 5.5 lower with 2 inches and connect
 come ct a lime from 55 to 37 , when will finish in the proper shape the bottom of the front. When these bottom limes are completed we are about ready to prepare the separate pate of the step-in effect on the very same formation. Therefore, note that the lime from 7 to 77 is the beginning line for the lower part or step-in effect.

To complete the step-in effect for the back part, measure the space leetwern 5 and 6 . and mote that the line at 6 is the line continued from the center back seam of the chemise. which is contimsel from 35 towards + down to 6 . Therefore, measure the space from 5 to 6 and apply the same from 5 tu Ge and draw a line from 6 towards 6 go sis. Now measure the
 the diagram, lost to 3 . which will make the bottom curve of the bate part of the step-in effect. Now measme at the bottom of the front form 12 to No. 3 inches and also from 12
 to si measures the same amount as the space at the back from on to se abd then curve the bottom of the front from $3 t$ to ck . Connect a line from 77 to so, which is the front edge of the front part for the step-in effect.

The neck opening for this garment, as a rule is made on the same principle as for the ordinary chemise, with a slight difference that it is made with a lost somber strip. Therefore take half of each shoulder. for the back from 20 to 21, making , ${ }^{4}$, and curve from
 way, from $2 t$ to 25, making to, and curve from to to ? to the from edge, and from to to 38 , to the bottom of the amble, ats shown on the diatsiam. Shamble a shape neck be wanted, follow the trace lines for the front from to to "and for the back from 39 to $\mathcal{N}$.

To cut out the step-in effect, mote that the straight line from 7 to 77 is the top line of the step-in effect and therefore cut out the back from 36 to 7 . So the center late k down to
 sO and 81 , and from 81 to $3 t u p$ to 37 . When these parts are echt ont you will mote, as a rule, there are no seams allowed at the side of the step-in effect and, therefore see instructtons below.

Was mote that according to the usual rule the bottom of the step-in from 6 to 88 and SO to Nl are seamed together, but for more practical use according to our diagram we show the same can be buttoned. Therefore allow I inch buton-stand at the hot tom of the back part from 6 to $A$ and 88 to $B$, as shown on the arg $w n$. Otherwise, this step-in chemise is complete with all necessary seams allowed.

## Lesson No. 424

To make the step-in effect in one-piece, cut out as explained and copy the back part as. shown on the miniature diagram from $\mathcal{L}, ~ I, ~ C, ~ D, ~$ o $F$, and place the front side seam next to the hack side scam from $F$ to $D$ and $(i$ to $E$ and continue copying the front part to 11.1 and I and connect It $G_{1}$ as shown on the diagram. See that the brakes are filled in at the top at $D$ to $F$ and at the bottom at $G$ to $E$. This makes the step-in effect in onepiece with all necessary seams allowed.


## THE PRACIICAL DEうIGNER



## THE STUDY OF THE STOUT FORM

## Lesson No. 425

In order to clothe the stout form propery We find many changer in formality. The chanse ate shown in many respects as there are regular stonts, short stonts and extra stonts. Note illussation and table of proportions.

The regular stout form is louilt in regular natural waist length. The width of back is proportamately built to its si\%e The bnst measurement is increased accurding to its proportions. The all-around wast is increased or orer-built, aceordinge to size, which makes this form a stout.

The short stout form in greatly changed in natural waist length, being a great deal shomer an aceomnt of the beight. The bust measurement is somewhat full and shows a great deal larger on aceonnt of the short height. The watst is particularly over-built, similar to the matural proportions of a stout. The sleeve is a great deal shorter than for the regular stout or the proportionately built person. Is the armhole of every stout is to occupy large decpucss, the under-arm for this short stout is particularly very short.

The extra stout form is greatly changed on account of its height. The back depth and natural waist length is long. The slece length is full length, similar to the regular proportionate large size, which may lec for the extra stout form from 19 to 20 inclies.

In order to make the foundation pattern, make the foundation outlines for dafting according to the table of proportions given on the opposite page for any branch of stonts desired. By all means follow the rules and regulations as for the regular proportions, with the exception of using the measumements for stouts. The model size for short stouts is size 41 and the model size for regular stouts is size 45 .


Proportional Stout Measurements for Womers Garment-for Ileight of 5 feet 6 inches

## Lesson No. 426

|  | Bust | Waist | Hip | Back Depth | Natural Waist Length | Side Length | Inside Sleeve Length | Width of Back |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 4.3 | 30 | 45 | 71/2 | 151/2 | i | 15 | $7{ }^{7}$ |
| +1 | +4 | 31 | 46 | 7- | 151/2 | 75 | 18 | S |
| 42 | 45 | 32 | 47 | 7.3 | 15\% | 731 | 15 | N's |
| 43 | 46 | 321/2 | 471/2 | 77 | $15{ }^{\text {! }}$ | 758 | 1N | St |
| 4 | 47 | 3.3 | $4{ }^{1}$ | S | 151/2 | 71/2 | 1734 | Nis |
| 45 | 45 | 331/2 | +151/2 | S', | 151/2 | 7. ${ }^{\text {\% }}$ | 1731 | S1/2 |
| 46 | 49 | 3.3 | 49 | $81 / 4$ | 151/2 | $71 / 4$ | 17.3 | 45s |
| 47 | $401 / 2$ | $3+1 / 2$ | 491/2 | 8,3/8 | 151/2 | $7{ }^{1}$ | 171/2 | 以, 4 |
| 45 | 50 | 35 | 50 | S1/2 | 151/2 | 7 | 171/2 | S7, |
| 49 | $501 / 2$ | $351 / 2$ | 501/2 | 15\% | 153/8 | 63 | 171/2 | 9) |
| 50 | 51 | 36 | 51 | S3í | $15 . \%$ | $61 / 2$ | $171 / 4$ | 98 |
| 51 | 52 | 37 | 52 | 83 | $15 \% 8$ | $61 / 2$ | 171/4 | 91/4 |
| 52 | 5.3 | 38 | 53 | 83年 | 151/4 | $6.3 / 8$ | 17 | 93/8 |
| 53 | 54 | 39 | 54 | 83 | 151/4 | 6.18 | 17 | $91 / 2$ |
| 54 | 5.5 | 40 | 55 | 8.3 | 151/4 | 61/4 | 17 | ${ }^{1} 5$ \% ${ }^{\text {\% }}$ |

Short and Stout Proportions-for Height of 5 feet 4 inches.

| 39 | 41 | 23 | $431 / 2$ | 73/3 | 145/8 | $71 / 4$ | 17 | 75 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 39 | 42 | 29) | 4 | $71 / 2$ | $1+34$ | 71/4 | 17 | 73 |
| 40 | 4.3 | . 30 | $4+1 / 2$ | 75/8 | 147'\% | $71 /$ | 17 | 77 \% |
| 41 | 4. | 31 | $451 / 2$ | 73 | 15 | $71 / 4$ | 161/2 | S |
| 42 | 45 | 32 | $461 / 2$ | 7\% | 15 | $7{ }^{\text {7 }}$ | 161/2 | ¢ |
| 43 | +51/2 | 33 | 47 | 8 | 15 | 7 | 161/2 | 81/4 |
| +t | 46 | 3.3 | $471 / 2$ | Sis | 15 | 6 O | 161/2 | Sis |
| 45 | 47 | 35 | 45 | $8{ }^{21}$ | 15 | 6\%! | 161/4 | \$1/2 |
| 46 | $471 / 2$ | 36 | 481/2 | S33/8 | 15 | 658 | 161/4 | 85 |
| 47 | 45 | 371/2 | 49 | $81 / 2$ | 15 | $61 / 2$ | 161/4 | $83_{1}$ |
| 48 | 49 | $3{ }^{3}$ | $491 / 2$ | 858 | 15 | 63/3 | 161/4 | 878 |

## THE PRACTICAL DESIGNER



## WOMAN'S TIGHT-FITTING DRAWERS, FRONT PART-Size 36

Lesson No. 427

To begin the tightfitting drawers fount part drat outlines itcondlug th the same primejple as for the pantaloons with the exception of the low n part when is the knee coif and ankle and mise measurements, as follows:


In order to begin follow the upper part from waist to hip ats explained for the pantaloon



 bottom or ankle line. Show from 13 to $\mathrm{L}^{\top}, 1^{\prime} \mathrm{I}_{2}$ inches for fullness and curve from Q to U Which is from the waist to the hip at the sidle seam. Then divide the space
 towards 1 . 11 and $T$, which makes the center line for the front part of the tight-litting drawers.

Now make the kine, ankle and cali as follows: Note that the knee measmement is 1.3
 and 2. measure 1.5 inches ion calf, taking 14 of 15 inches amounting to 3 , inches at each side of ${ }^{\prime}$ to 3 and + on the call line. To make the ankle or bottom of the front see that the ankle or bottom amounts to 12 inches. Take $1 / 4$ of 12 inches amounting for 3 inches at each side of $T$ to 5 and 6. Wake curves according to the diagram of the front part for the
 I, 1 and 3 down to 5 . This completes the front part with all seams allowed.

## Back Part-Size 36

Lesson No. 428

To make the back part continue on the front part as follows: Raise at straight line in p from L to $k$ measuring 3 inches. Draw a line from 1 on Pandmeasure from 1 . to 1 it of 25 inches waist amounting to $6^{1}$ it inches and allow from $I$ to 1 . 3 inches for seams and full-
 cure from $k$ to the main crutch of the front to 1 , as shown on the diagram, and curve from ] to 1 down towatels 11 and M . . Measure as usual, from Ito $11.1 / 12$ of hip measuremont and from 11 to $.1 /$ is 1 inch allowed for seams. Slow $1 \frac{1}{2}$ inches for seams from 1 to $\mathrm{I}^{2}, 3$ to F and 5 to D ) and cue the bottom from (ito D . Should a more fitted waist be wanted follow the dart instructions as explained in the lesson of the pantatom pajamas.



Back Part-Size 36


Front Part-Size 36


## WOMAN'S KIMONO EFPECT FOUNDATION-Size 36

Lesson No. 429

In order to begin the kimono effect fommation draw the ordinary ontlines according to the first and second lessuns of this rolume as far at the bust with seams allowed and then divide the arminole equally as follows:

To begin divite the space between is amd it on the lureast line which is the ambole spate making 26. Jraw a line down from 26 to 27 which is at the waist line. Fake out from catch side of 26 at the breast line to 5 and $2 x^{2},{ }^{1} 2$ inch each, and at the wast line fomm each side of 7 to $2^{2}$ and 30 take ont 1 inch each or whatever the stye may refuire and connect a line for the side seam of the late from 2 d 10.30 and for the front side seam from 5102 . Nake the armbole with $1 / 2$ inches deeper from 26 to 31 and .32 which is useful for the kimono style.

To make the back part of the kimono stye continue a line from the shoulder from 11 unards 9 out to sis and measure from the regular width of shonder. which is from 12 tu 3.3 for at shot sleeme length, 12 inches. Then square a line down from 3.3 to $3 t$ and in order (1) set the width of slewe measume the parallel space from 35 to 32 and apply the same
 will finish the back part of the kimome effect.

To finish the front part of the kimono effect raise 3 inches from 20 to 36 and commect a line form 36 to 4 . which is the width of front shoulder and measure 12 inches for the slereve
 and measure with 1 inch addiomally amomoting to $9 \%$ inches from 37 to 3 . Sow connect With a line from 3 os to 31 . which will complete the from kimonn slecte.

Now finish the bottom of this kimono effect fomblation the same as for the eurset enere wr according to any other style this is mate to be used. This kimono strfe fommfation is weful for all garmionte that they may be built with a kimumo style, such as, night gomens. pajamas, cte. This lesson is complete with all necessary seams allowed.


## THE PRACTICAL DESIGNER

WOMAN'S PAJAMA BLOUSE—Size 36

Lesson No. 430
 atcording to the lirst and second lessons of this whme at far as the bust meaturement with seams allowed, and then continne as fullows:

Make the botom line fur the complete length by meatiming 12 inches from $C$ to 7.7. and draw at line across from $\% \%$ w . This will brimg at mamal leneth for the pajama honse. Now symare a line down fom the hreast line whels is from ! to 11 and extend at the wast line from $\mathrm{If}^{\circ}$ to I . I inch and draw a line from I against Y down to $\%$ which will give the edere of the front. From $V$ comect a line up to the front neck point to $R$. Is a rule a low opening is made for the pajama blonse, then dratw a straght line fomm the front shoulder point from $l^{\prime}$ to $I^{\prime}$ and allow $\left.\right|^{\prime}$; inches for button-stand from I' to + at the lucast line, $\%$ to 5 at the bottom line and connect + to 5 . Should it be necessary to have the button-stame all the way up to the beck continue l! z inches parallel to the front neck edse uj) tor $R$.

Now make the side seam and armhols. Divide equally the space between Il and MI making . 1.1 and draw a straght line doinn from 1.1 to 1 . Fake ont from each side of S. 1 to $1:$ and $X$ a 12 inch. Cime from $X$ io $1:$ down to the botom line lost to 1 . Sloudd we want a more straight side house dedue a 12 inch at the hottom line at each side of 1 to 2 and 3 and commed $X$ to 3 and E to 2 . 1 Then raise 1 p if of an inch at 1 , which is the lootom of the side seam and curse $\% \%$ of 1 . which is the bottom curve of the back and curse from 1 to \% to the edge of the front for the lottom of the front. Then curve the
 Is mu seam hack is wanted, follow the straticht line of the eenter back from 1 to $7 \%$ and deduct there is of an inch for $n$ seam back as shown on the diagram by the dotted line.

To make the pocket in the patch style at the breast part of the blowse place the same 1 inch in from 3 to 6 and draw a line from 6 to 7 about $1 / 2$ ineh hias from the breast line fown. Neasme from 6 to 7.5 incles for size 36 which is a $1 / 2$ inch more than $1 / 8$ of size. Now draw a line down irom 6 to 0 and 7 to 8 and measme there 1 inch additional, amounting to 6 inches and commect 8 to 9 . Which will complete the bottom of the pateh poclict which may be changel according to style or taste.

Should a lower pocket be wanter use the same instruction, with the exception that the fower pocket is to be placed at least 2 inches below the waist line. The size of the pocket is to occupy the same space. This completes the pajamat humse with all necessary scams allowed.




WOMAN'S STANDING COLLAR -Size 36

Lesson No. 431

The standing collar which is useful for all button-up necks, which is specially used for the pajama blouse, is followed according to the neck measurement, which is $1+$ inches for size 36 . To draft act as follows:

To begin draw a line from 1 to $B$ and $P$ to $D$. Measure from $A$ in $B$, 3 incline, and from E to D. 15 inches, which is 14 inches for all-aromad neck measurement and 1 inch for seams. Then measure from D) to C. 3 inches, and connect a line from $A$ to $C$. Now
 and D to I. 1 inch each and lower from F to ( i , with 1 inch at the center line. Curve, as

 to 11 and I to I, which will complete the stamping collar with all necessary seams allowed


WOMAN'S FLAT COLLAR-Sizc 36

Lesson No. 432

The flat collar is also used on all button-ipheneck garments and lays flat ower the shoulders, and produces mo stand. In order to prorluce the same use the front and back of a hattom-1p garment and copy the neck of the lack dirst. at shown on the diagram, from I to C. C to D, I to $B$ and $B$ to D. Then lapover the front part at the shoulder seams by deducting a $1 / 2$ inch at $C$ to $E$ and $D$ to $F$ and continue copying the front neck from $C$ to (i and Ci to if acoording to the edge of the front and copy from if to $D$ all arommed to $F$ and $B$. which will complete the wilth of the collar.

The width of this collar. Which is from I to $P$ and $C$ in 11 , shall be about 4 inches. which will complete the collar in a 3 -inch width when all seams are deducted. Acording to this instruction all seams are allowed.

## THE PRACTICAL DESIGNER



## WOMAN'S ONE-PIECE SLEEVE ON TOP OF ARMHOLE

Lesson No. 433

In order to begin the sleeve mote that io r molewear where sexes are necosany only
 showing how simply we can obtain a one-piece sleet on top of the armhole which sates a great deal of time and material. If hen a one-picee sleet is desired complete the entire drat of the garment wanted with an expat divided armhole and then act ats follows:

To begin measure $1 / 8$ of si \%e amounting to $+!$ inches att the back from 11 to a and the
 connect a line for 2 of ats shown on the diagram, and draw a line down at the lack from 3 on 5 and at the front from 1 w 6 . Measure the inner slecre length when is for the fol
 line for the bottom of slecec from 5 to 6 . Now mote that in order to complete the head of the sleeve we curve for the hack part of the sleeve from + towards 11 to life and for the front heat of the see we curve from lis towards 12 to 2 . This will complete the upper part of the sleet which will hit the particular armhole the sleet is drafted on.

To finish the bottom of the sleeve to any width desired. We should first decide tine width wanted. For instance, make 12 inches for the bottom or cuff withes sleeve In such case, measure from 5 to 7 at the back part 6 inches and at the front pare from 6 on 8 also ( $)$ inches and connect with a cursed line, as simon on the diagram, from lilts to 7 for the hack see and curve from E to 8 for the front sleeve. Then add a $1 / 2$ inch at the bottom sleeve from 5 to 9 and comment 9 to 7 and the same way add a ${ }^{2} \frac{2}{2}$ inch from 6 to 10 and om bet with a curve from of to 10 , which $w=1$ complete the entire whe-prece sleeve with all necessary seams allowed.

If the sleeve is desired in $1 / 2,1 / 4$ or 3 length, then act as follows: lion a $1 / 2$ length alecto take half of the inside length from life to 7 or F is to which amounts (1) inches for a $1 / 2$
 bottom which amounts to $+1 / 2$ inches. When $a^{3}+$ length sloe is wanted tale $3^{3}+$ of the inside length from the armhole down, which amounts to $1.31 / 2$ inches. The full length sleet as the diagram shows is from the armhole down and amomats to 18 inches.


## THE PRACTICAI DESIGNER

WOMAN'S TWO PIECE OR FOUR-GORE PETTICOAT-Size 36

## Lesson No. 434

In order to begin the petticuat use the fullowing standard measurement, or for stylisil mu:

| $\begin{aligned} & \text { Wiast } \\ & \text { Hip } \end{aligned}$ | 25 inches | Front Length | 40 inches |
| :---: | :---: | :---: | :---: |
|  | . 43 inches | Side Length ...................tl inchio. |  |
|  | Back lemgth | ... 42 |  |

To begin draw a line from 1 to 2 and 1 to 3 and measure half of 25 inches waist measurement from 1 to + amounting to $12!\frac{1}{2}$ inches. Then allow from + to 3,3 inches for fullness and allow 1 inch additional ii only a side scam is wanted, which is uscful for a twopicee petticoat. If this petticoat is supposed to be four-gore allow 2 inches for seams and 3 inches for fulluess Gom which the total amount, in such case, will be 5 inches between + and 3 . Then raise wi from 3 to $5,41 / 2$ inches and connect with a line from 1 to 5 . Raise up from 1 to 9 , 1 inch and chlte, ats shown on the diagram, from y, 10 to 5 .

Now measure from 1 to 6 and 5 to 7,6 inches and draw a line from 6 to 7 making is? hij) line. Mésure from 6 to 7 half of 43 inches hip measurement amounting to $211 / 2$ inches and 1 inch additional for a seam making $221 / 2$ inches. Draw a line from 5 towards 7 down to 8 atod measure from 5 to 8,42 inches back length. Now divide the space on the watist lin. from 9 to 5 equally making 10 . Measure the bottom from 2 to 8 making 11 and connect a line from 10 to 11 and measure from 10 to 11 , 11 inches side length. Now eurve the bottom from 2 towards 11 to 8 . This completes the petticoat in tworpieces or four-pieces with gathers at the waist.

Should no gathering be wanted around the waist, then measure the wast curve from 9 w 5 . If the space there measures 18 inches take ont for a dart the amount that is over half of waist including the amount allowed for seams, which is as fulluws: Half of 25 inches waist is $12^{1} \frac{1}{2}$ inches and if 2 inches are allowed for seams which makes $1+\frac{1}{2}$, in such case, deduct 1.12 inches from 18 inches, which shows there is an wrer-amomet of $31 / 2$ inches. In this case, take out from each side of 10 to 12 and 13 , $1: 1$ inches and curve from 12 and 13 lost to the hip line to 14 . This will complete the two-piece or four gore petticoat.


## WOMAN'S FIVE-GORE PETTICOAT-Sizc 30

Lesjon No. 435

To begin the five-gore petticoat make the iomblation muthes as for the lessen explained Whore with the difference that we are to allow $2^{1}{ }^{2}$ inches for 5 seams at the waist and hin lines ater measuring the waist and hip measurements. Begin by measuring the fromt panci Which is 3 inches from 12 to 13 at the wasi line and 6 inches at the bottum curve irom 2 to 14 , and draw a straght line from 13 to 1 .

Now divide the inmer gores. Divide the spece equally from 1.3 to 6 at the waist line making 15 and the same way divide the bottom curve from $1+$ to 10 making 11 and draw a straight line from 15 to 11 making the side seam for a five-gore petticoat. If fullness is wante 1 at the waist line lease the fomblation as it is without taking any dart out. Should we want a diam iollow the rule and regulations as explaned in the last lesson.

Take special notice that this petticoat cin be drafted according to any measurements wanted. lor instance, if a large waist measmement is desired with small hip measmement, which is as a male, chamgeable every season according to the shape of varions models use the same system aceoreling to such incasurements. If $2 x$ inches waist measurement is desifed simply measure aconding to this diagramfom 1 to $3,1 \frac{1}{2}$ of 28 inches waist measurement amounting to it inches. Then continue from ito alluwing 3 inches for fullness and allow i.j thi, tife-gure petticoat irom $\div$ to $5,2 \frac{1}{2}$ inches for seams and raise the same way up a line irom 5 to 6 amomeng to $41 / 2$ inches. Utherwise, act as explaned before including hip measmement whatever it may be with the understanding that according to this diagram we meatmre! ? of hip measumeme from 7 to 8 and allow $2^{2} 2$ inclies fur seams from is to 9 , which is the same amount as allowed at the waist. Then draw a back line from 6 toward 9 and 10 and finish the bottom of this petticoat as usual.

If petticoats are desired for misses' sizes, all it womld be necessary is to use the waist and hip measurements as given on the table ofproportions for misses' sizes. Lengths may be followed according to the table of proportions or according to style. It is very important to linow that lengths are, as a role, followed according to style, becanse the petticoat is abways to he shorter with 1 or 2 inches than the dress or skirt and, therefore, the lengla shall ba gruded accorling to the length of skirts or dresses.


MISSES＇FOUNDATI ON OUTLINES—Sizc 16.

## Lesson No． 436

In order to begin the misses＇foundation outlines all we need to remember is the dillerence betwern women＇s and misies propertions．and for best results the student will
 for which the tahe of propurtions are prepared in the front patses of thas whance fobegin to draft we are to prepare the fomblation according to standard measurements，which are as 1．1lいいふ：

| Pitch depth | $63+$ inches | Wll around chest ．．．．．．．．．．． 3 －inche |
| :---: | :---: | :---: |
| II aist leugth | 15 inches | Bust ．．．．．．．．．．．．．．．．．． 37 inche |
|  | drast | 2.3 inches |

To begin to drait draw spuare lines as nand from ito（and．I to R．Then measure from Itw B． $0^{3}$ inches hack depth and from $A$ to $C, 15$ inches natural waist lengeth and draw



Now prepare the width of back．Divide the space on the breast line between $B$ and $E$ making $\left(i\right.$ ．Sllow from $G$ to $1 I, 1 \frac{1}{4}$ inches．Then measure the space from $B$ to 11 on the lratst line and place the same amonnt on the top line from 1 to 1 and eonnect a line from
 to $K$ with 1 inch．Draw a line from $K$ against I to $L$ and square a line from 1 ，to meet 11 Which will according to this action give the correct width of shomker．Meature from （ 0 ， 11 on the waist line 2 inches and comect with a line up to I which will make the in－ clane of the hack and eomplete the entire hack foundation．

To continue with the front measure from $1:$ to $N$ and 1）to（ $), 1 / 6$ of $3+$ inches and draw
 commet a line from（）to $T$ ．Now measure the back shoulder from $K$ to $L$ and apply the same amomit from $(\underset{)}{ }$ to $\tilde{U}$ and connect a line from $U$ to $N$ which will complete the front arm－ hole lime．If hen being as far as this measure half of bust measurement from T to $V$ amonnting on $1 \mathbb{R}^{\prime}$ ？inches acouding to 37 inches bust measurement and alluw 3 inches for scam：from 11011 ．Now square a line down from 11 ．I to I ．Add $1 / 2$ inch for a seam in
 ionnclation to the edge of the front which is now ready for following np for any purpose for the various garments as shown for size 36 for the underivear line．For additional misses＇sizes sce table of proportions．



The number under each cut gives the lesson numter. See lessons on the various pages in this volume.

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## THE PRACTICAL DESIGNER



## I N DEX

## WOMEN＇S AND MISSES＇UNDERWEAR

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l＇rablesis ai Limerwerar ..... 790－791
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I＇ropurtonat Wcasurcments ior Women＇s and IIsses＇L＇inderwear ..... 793
Homan＇s liers finmmation Limes ..... 794－7リ：
W＇untm＇s secund Fommdaton Lines ..... $790-997$
IV oman＇s Corsct Cover ..... $.798-749$
Noman＇s Tight－l＇uttug Corset Cover ..... sou－sill
H＂oman＇s Brassiere ..... 
IVoman＇s Camisule ..... $.804-805$
H＇omat＂：Chemise ..... S06－807
IV oman＇s Vilvelone Chemise ..... 
W＇oman＇s（）ne－piece Night town ..... 810.811
IV oman＇s Jight fiown with loke ..... 812－81．3
Homan＇s Princess Slip ..... $81+815$
IVoman＇s Bloomers or Knickerbockers．Front l＇art ..... $810-817$
Iloman＇s Bloomers or Kıickerbockers，Back Part ..... 816－817
IVoman＇s 1）rawers，Firont Par！ ..... 818－819
IVoman＇s Drawers，Back Part ..... $.818-819$
IVoman＇：I＇antalonn I＇ajamas．Jiront P＇art ..... $820-821$
lloman＇s l＇antaloon Pajamas．Back l＇art ..... $8 ? 0-8 \geq 1$
W＇oman＇s One－piece or Circular Drawers ..... R？？
II nman＇s Eimelope Irawers ..... 82.3
Homan＇s Ine－picee L＇ajamas，Kimono Siyle，Firont l＇art ..... $82-1.8 \geq 5$
iioman＇：（）ne－picee l＇ajamas，Kimono Style，Back l＇art ..... $826-827$
U＇oman＇s C ombination Chemisc．Back Jart ..... 828－829
W＇oman＇s（ $o m b$ mation Chemise．Front l＇art ..... $828-829$
IVoman＇s Step－ill Chemise ..... 830－8．3！
IVoman＇s（Ine－picec Step－in ..... $8.30-8.31$
The situly of the Stout fiorm ..... $83 ?$
Iroportional Siout Neasurements for Women． ..... 83.3
IV oman＇s Tight－fitting I）rawers．Vront Vart ..... $834-8.33$
ilnoman＇s Tight－fitting I）rawers．Pack Part ..... $8.34-8.35$
Homan＇s Kimono Fiffect Foundation ..... $836-8.37$
IVoman＇s Pajama lblouse ..... 8．38－8．39
Noman＇s Standing Collar ..... 841）
Iloman＇s lilat Collar ..... $8+1$
Voman＇s One－picce Sleeve on Top of Armhole ..... $842-843$
IV＇oman＇s Two－piece or Four Gore Petticoat ..... $8+4-8+5$
iloman＇s Five Ciore l＇elticoat ..... $8+6-847$
Misses＇liommdation Outline ..... $8+8-8+4$
fille lllustrations ..... 830



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